

NACOmatic

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ID Min Alt#1 -	5	CTB -	211	MUO -	109
ID Min TO#1 -	13	CVO -	374	MWH -	626
MT Min Alt#1 -	145	CYS -	899	MYL -	106
MT Min TO#1 -	153	DEW -	593	NOW -	675
OR Min Alt#1 -	317	DGW -	911	NUW -	639
OR Min Rdr#1 -	325	DIJ -	73	OKH -	652
OR Min TO#1 -	328	DLN -	213	OLF -	314
WA Min Alt#1 -	543	DLS -	538	OLM -	653
WA Min Rdr#1 -	551	EAN -	979	OMK -	660
WA Min TO#1 -	554	EAT -	831	ONO -	451
WY Min Alt#1 -	847	ECS -	951	ONP -	437
WY Min Rdr#1 -	855	ELN -	596	ORS -	595
WY Min TO#1 -	858	EMM -	943	OTH -	443
1S3 -	215	EPH -	600	PAE -	604
32S -	311	EUG -	383	PDT -	454
3S8 -	397	EUL -	65	PDX -	471
3U3 -	175	EVW -	913	PIH -	122
42S -	298	FBR -	918	PLU -	679
6S5 -	236	FHR -	617	PNA -	952
6S8 -	266	GCC -	920	POY -	955
79S -	217	GCD -	400	PSC -	662
7S0 -	300	GDV -	222	PUW -	676
7V6 -	928	GEG -	763	PWD -	294
8S1 -	295	GEY -	925	PWT -	585
9S2 -	304	GGW -	218	RBG -	526
9S9 -	416	GNG -	76	RDM -	515
AFO -	880	GPI -	258	RIW -	958
ALW -	822	GRF -	611	RKS -	963
AOC -	35	GTF -	223	RLD -	686
AST -	351	HIO -	461	RNT -	680
AWO -	576	HLN -	241	RWL -	956
BDN -	367	HQM -	619	RXE -	128
BFI -	691	HRI -	398	S01 -	210
BHK -	176	HVR -	239	S12 -	350
BIL -	179	IDA -	87	S21 -	536
BKE -	364	JAC -	931	S33 -	418
BLI -	580	JER -	95	S39 -	511
BNO -	372	KLS -	624	S43 -	762
BOI -	42	LAR -	946	S50 -	578
BPI -	884	LGD -	412	S59 -	271
BTM -	199	LKV -	414	S67 -	119
BVS -	589	LMT -	402	S80 -	79
BYG -	886	LVM -	273	S87 -	144
BYI -	62	LWS -	98	SAA -	969
BZN -	192	LWT -	269	SBX -	305
CII -	205	M46 -	206	SDY -	307
CLM -	671	M75 -	277	SEA -	705
CLS -	592	MFR -	423	SFF -	780
COD -	907	MLS -	279	SHN -	759
COE -	68	MMV -	419	SHR -	971
CPR -	888	MSO -	283	SKA -	790

SLE	-	528
SMN	-	130
SPB	-	534
SUN	-	82
SZT	-	133
TCM	-	801
TIW	-	815
TMK	-	541
TOR	-	975
TTD	-	506
TWF	-	135
U02	-	37
U68	-	910
U76	-	118
UAO	-	358
VUO	-	821
W43	-	930
WRL	-	980
WYS	-	312
YKM	-	835

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2½.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2¾.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Category A, 1100-4; Categories B,C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
VOR/DME Rwy 3
VOR Rwy 21

NA when local weather not available.

Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¾**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR or GPS Rwy 7¹**
VOR or GPS Rwy 25²

¹Category D, 800-2¾.

²Categories A,B, 1000-2; Categories C,D,
1000-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷
 VOR-A⁸
 VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

LEWISTON, ID

LEWISTON-NEZ PERCE

COUNTY **ILS Rwy 26¹²**

RNAV (GPS) Rwy 8³

RNAV (GPS) Rwy 12³

RNAV (GPS) Rwy 26³

VOR Rwy 8⁴

VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI **RNAV (GPS) Rwy 7**

VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**

VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D, 2200-3.

MCMINNVILLE, OR

MCMINNVILLE MUNI **ILS or LOC Rwy 22**

RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-

MEDFORD **ILS or LOC/DME Rwy 14¹²**

LOC/DME BC-B²³

RNAV (GPS)-D³

RNAV (GPS) Rwy 14⁴

VOR-A⁵

VOR/DME-C³

VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**

RNAV (GPS) Y Rwy 11²³

RNAV (RNP) Z Rwy 11², 800-2½

VOR/DME or GPS-A, 2000-3

VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**

NDB Rwy 32R²

RNAV (GPS) Rwy 4¹

RNAV (GPS) Rwy 14L¹

RNAV (GPS) Rwy 22¹

VOR Rwy 4²

VOR -1 Rwy 14L²

VOR -3 Rwy 14L²

VOR Rwy 22²

VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**

NA except for operators with approved weather reporting service.

Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON

RGNL **ILS or LOC Rwy 4¹**

NDB or GPS Rwy 4²

VOR or GPS-A³

VOR/DME or GPS-B⁴

VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½, Category D, 1000-3. LOC, Category C, 900-2½, Category D, 1000-3.

²Category C, 900-2½; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**

NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**

RNAV (GPS) Rwy 17²

RNAV (GPS) Rwy 35²

VOR-A²³

VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
ONTARIO, OR
ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

PASCO, WA
TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30
NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
EASTERN OREGON RGNL AT
PENDLETON **ILS or LOC/DME Rwy 25¹**
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 29
VOR Rwy 7
NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
PINEDALE/RALPH WENZ
FIELD **NDB-A**
NA when local weather not available.
Category C, 800-2¼; Category D, 800-2½.

POCATELLO, ID
POCATELLO RGNL **ILS or LOC Rwy 21¹**
RNAV (GPS) Rwy 3²
RNAV (GPS) Rwy 21²
¹NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
WILLIAM R
FAIRCHILD INTL **ILS or LOC Rwy 8**
RNAV (GPS) Rwy 8¹
RNAV (GPS) Rwy 26
NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME **ALTERNATE MINIMUMS**
PORTLAND, OR
PORTLAND INTL **ILS or LOC Rwy 10L¹**
ILS or LOC Rwy 10R²
ILS or LOC Rwy 28L³
ILS or LOC Rwy 28R⁴
LOC/DME Rwy 21⁵
RNAV (GPS) Rwy 10L⁵
RNAV (GPS) Rwy 10R⁶
RNAV (GPS) Rwy 12⁷
RNAV (GPS) Rwy 28L⁸
RNAV (GPS) Rwy 28R⁸
VOR/DME Rwy 21⁵
VOR-A⁹
VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. **ILS or LOC Rwy 12¹**
RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE **NDB or GPS-A**
Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
PULLMAN/MOSCOW
MUNI **RNAV (GPS) Rwy 5,800-2½**

RAWLINS, WY
RAWLINS MUNI/
HARVEY FIELD **NDB or GPS-A¹**
VOR or GPS Rwy 22,1000-3²
¹Category D, 1000-3.
²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16¹
RNAV (GPS) Z Rwy 16²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

²Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON

COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER

COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

McNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL

AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY

INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN

COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.

Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2½.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.



NAME

ALTERNATE MINIMUMS

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹

NDB Rwy 35¹

RNAV (GPS) Rwy 17¹²

RNAV (GPS) Rwy 35²³

- ¹NA when control tower closed.
- ²Category D, 800-2½.
- ³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/

THE DALLES MUNI RNAV (GPS)-A

Categories A,B, 1100-2; Category C, 1100-3;

Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY

RGNL ILS Rwy 25¹²

NDB Rwy 25³

RNAV (GPS) Rwy 7³

RNAV (GPS) Rwy 25³

VOR Rwy 7³⁴

- ¹NA when control tower closed.
- ²ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
- ³NA when local weather not available.
- ⁴Category C, 800-2½; Category D, 800-2½.

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹

NDB Rwy 20, 1000-3

RNAV (GPS) Rwy 2²³

RNAV (GPS) Rwy 16²

RNAV (GPS) Rwy 20²

VOR/DME Rwy 2²

- ¹ILS,LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
- ²Category D, 800-2½.
- ³NA when local weather not available.

NAME

ALTERNATE MINIMUMS

WENATCHEE, WA

PANGBORN

MEMORIAL ILS Y Rwy 12, 1300-4

VOR/DME or GPS-C,1400-3

VOR or GPS-A¹

VOR or GPS-B,2100-3

- ¹Categories A,B, 1400-2;Categories C,D, 1400-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11

RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16

Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/

MCALLISTER FIELD ILS Rwy 27¹²

LOC/DME BC-B³

VOR/DME or TACAN or GPS Rwy 27⁴

VOR or GPS-A⁴

- ¹ILS, NA when control tower closed.
- ²ILS, Category D, 700-2½. LOC, NA.
- ³Category D, 800-2½.
- ⁴Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.

Rwy 34, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 16**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA - obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 34**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left
Rwys 10L, 10R, turn right. Climb on BOI R-214 within
20 NM to cross BOI VORTAC at or above MEA/MCA
for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min.
climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure
end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: **All runways**, climb direct
BURLEY (BYI) VOR/DME. Continue climb on R-305
within 10 miles to cross BYI VOR/DME: R-024 CW
R-054 at or above 5500; R-055 CW R-240 at or above
8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway,
513' left of centerline, 110' AGL/4195' MSL. Stack 2205'
from departure end of runway, 857' right of centerline,
79' AGL/4236' MSL. Elevator 4092' from departure end
of runway, 297' right of centerline, 133' AGL/4283' MSL.
Rwy 20, antenna 523' from departure end of runway, 338'
right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree
630' from departure end of runway, 521' right of
centerline, 41' AGL/4215' MSL. Grain elevator 3106'
from departure end of runway, 163' left of centerline,
137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a
min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or
std. with a min. climb of 245' per NM to 2300. **Rwy 22**,
1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right
heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB
to cross BVS at or above 4500. Aircraft departing on
BVS R-145 CW R-330 climb on course. All others
continue climbing in BVS holding pattern (NW, right
turns 113° inbound) to cross BVS at or above 6800
before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway,
426' left of centerline, 100' AGL/212' MSL. Light pole
1489' from departure end of runway, 136' left of
centerline 35' AGL/137' MSL. Bush 126' from departure
end of runway, 430' right of centerline, 20' AGL/101'
MSL. Building 2925' from departure end of runway, 130'
left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CWR-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****ORIG 09295 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

* Or standard with minimum climb of 430/NM to 500.

** Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3, 7**, turn left;

Rwys 21, 25, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.



HELENA, MT

HELENA RGNL (HLN)

ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**. DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600. DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading. **All aircraft** climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL

DEPARTURE PROCEDURE: **All aircraft** departing IDA

R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.

NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL.

Rwy 17, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

**JEROME, ID**

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL.

Rwy 27, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



**LAUREL, MT****LAUREL MUNI**TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.DEPARTURE PROCEDURE: **Rwy 22**, turn left.**All aircraft** climb direct BIL VORTAC.**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left

direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.**Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.NOTES: **Rwy 8**, trees 1.42 NM from departure end of

runway, 2386' left of centerline, 100' AGL/2159' MSL.

Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.**Rwy 15**, use EYSE RNAV DEPARTURE.**LIVINGSTON, MT****MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.**MADRAS, OR****MADRAS MUNI (S33)****ORIG-A 09043 (FAA)**TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or . . .
... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.**MC CALL, ID****MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.**MC CHORD AFB (KTCM)****TACOMA, WA 09127**DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windssock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.
All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA. **Rwy** closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL.

Rwy 29, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 6 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. w/ min. climb of 270' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 7500 via heading 240 and PIH R-269 to SICOY/PIH 10 DME. **Rwys 17, 21**, climbing right turn to 7500 via PIH R-269 to SICOY/PIH 10 DME. **Rwy 35**, climbing left turn to 7500 via heading 230 and PIH R-269 to SICOY/PIH 10 DME.

DME REQUIRED.

NOTE: **Rwy 3**, trees beginning 3132' from departure end of runway, 562' left of centerline, up to 100' AGL/4549' MSL. Rod on obstruction light 978' from departure end of runway, 759' right of centerline, 37' AGL/4486' MSL.

Rwy 17, transmission tower 1.19 NM from departure end of runway, 2395' left of centerline, 124' AGL/4693' MSL. Trees beginning 1.63 NM from departure end of runway, 2642' left of centerline, up to 100' AGL/4759' MSL. Fence 112' from departure end of runway, 416' right of centerline, 4' AGL/ 4453' MSL. Bush 30' from departure end of runway, 261' right of centerline, 6' AGL/4445' MSL. Fence 208' from departure end of runway, 421' right of centerline, 10' AGL/4449' MSL. **Rwy 21**, antenna 543' from departure end of runway, 309' left of centerline, 17' AGL/4466' MSL. Obstruction light 543' from departure end of runway, 286' left of centerline, 13' AGL/ 4462' MSL. **Rwy 35**, electrical equipment 197' from departure end of runway, 248' left of centerline, 10' AGL/ 4454' MSL.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179' MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND, OR (CON'T)

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 3,300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28, NA**.

DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKWR-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 6 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 400' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, Climb heading 154° to 700, then climbing right turn direct SEA VORTAC, then..., or for climb in visual conditions: cross Renton Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, then...,

Rwy 34, Climb heading 334° to 700, then climbing left turn direct SEA VORTAC then..., ...Climb in SEA VORTAC holding pattern (E, LT, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, Trees, towers, lights and blast shield beginning 286' from departure end of runway, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from departure end of runway, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from departure end of runway, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from departure end of runway, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMD T 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.



SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions.

Rwy 23, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.



SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7,20,25,34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25,30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25,30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to ZEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

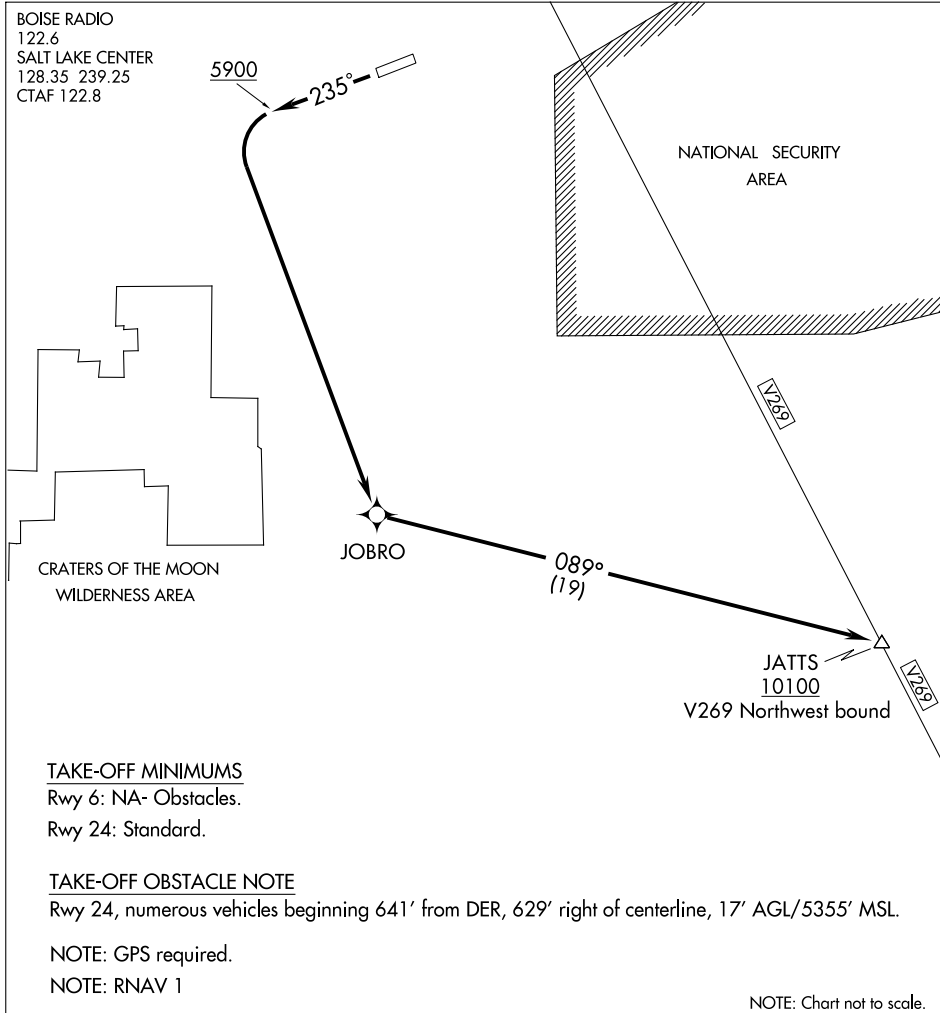
YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

(JATTS1.JATTS) 09239 SL-9198 (FAA)
JATTS ONE DEPARTURE (RNAV) (OBSTACLE)

ARCO-BUTTE COUNTY (AOC)
ARCO, IDAHO



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb heading 235° to 5900 then climbing left turn direct JOBRO, then via 089° track to JATTS before proceeding on course.

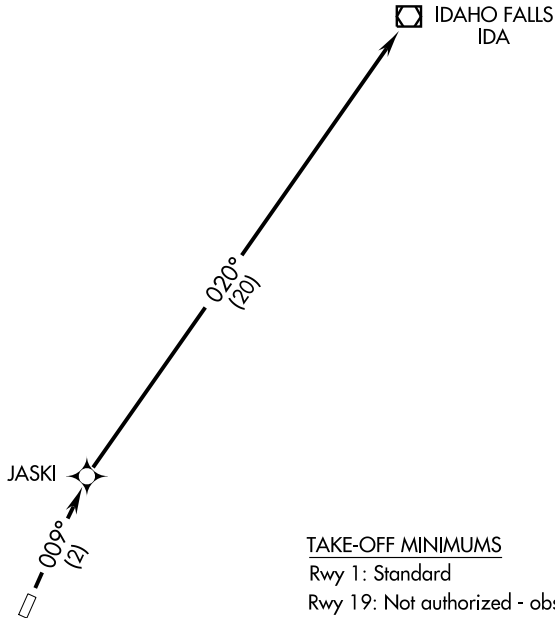
(IDA1.IDA) 09239

SL-9351 (FAA)

BLACKFOOT/MCCARLEY FIELD (T02)
BLACKFOOT, IDAHO

IDAHO FALLS ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER
128.35 239.25
UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS

Rwy 1: Standard

Rwy 19: Not authorized - obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 7000 (or higher assigned altitude) via 009° course to JASKI WP and right turn via 020° course to IDA VOR/DME, then via (assigned route).

TAKE-OFF RUNWAY 19: Not authorized.

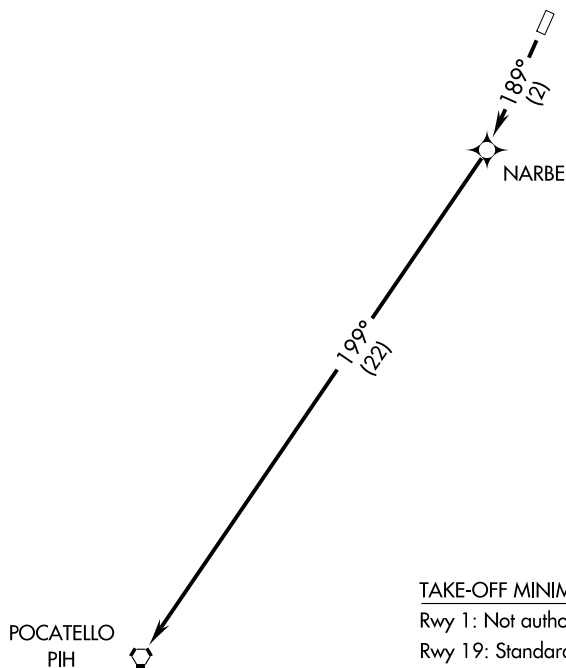
(PIH1 .PIH) 09239

SL-9351 (FAA)

BLACKFOOT/MCCARLEY FIELD (U02)
BLACKFOOT, IDAHO

POCATELLO ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER
128.35 239.25
UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS

Rwy 1: Not authorized - obstacles

Rwy 19: Standard

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Not authorized.

TAKE-OFF RUNWAY 19: Climb to 7000 (or higher assigned altitude) via 189° course to NARBE WP and right turn via 199° course to PIH VORTAC, then via (assigned route).

▼

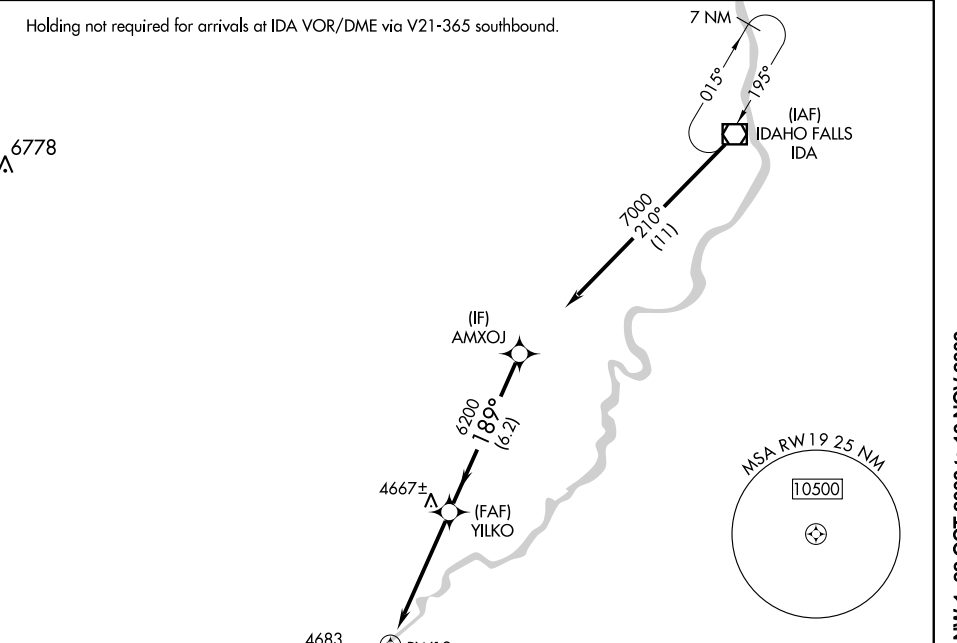
▲ NA

Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8500 direct NARBE and via 199° track to PIH VORTAC and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



MISSED APCH FIX

POCATELLO PIH
7 NM
201°
021°

ELEV 4488

189° to RW19

8500

NARBE

199° track

PIH

AMXOJ

7000

YILKO

6200

Procedure Turn NA

RW19

≤3.05° TCH 37

5.2 NM

6.2 NM

CATEGORY	A	B	C	D
CIRCLING	5340-1 852 (900-1)	5340-1¼ 852 (900-1¼)	5340-2½ 852 (900-2½)	5380-3 892 (900-3)

MIRL Rwy 1-19

NW-1. 22 OCT 2009 to 19 NOV 2009

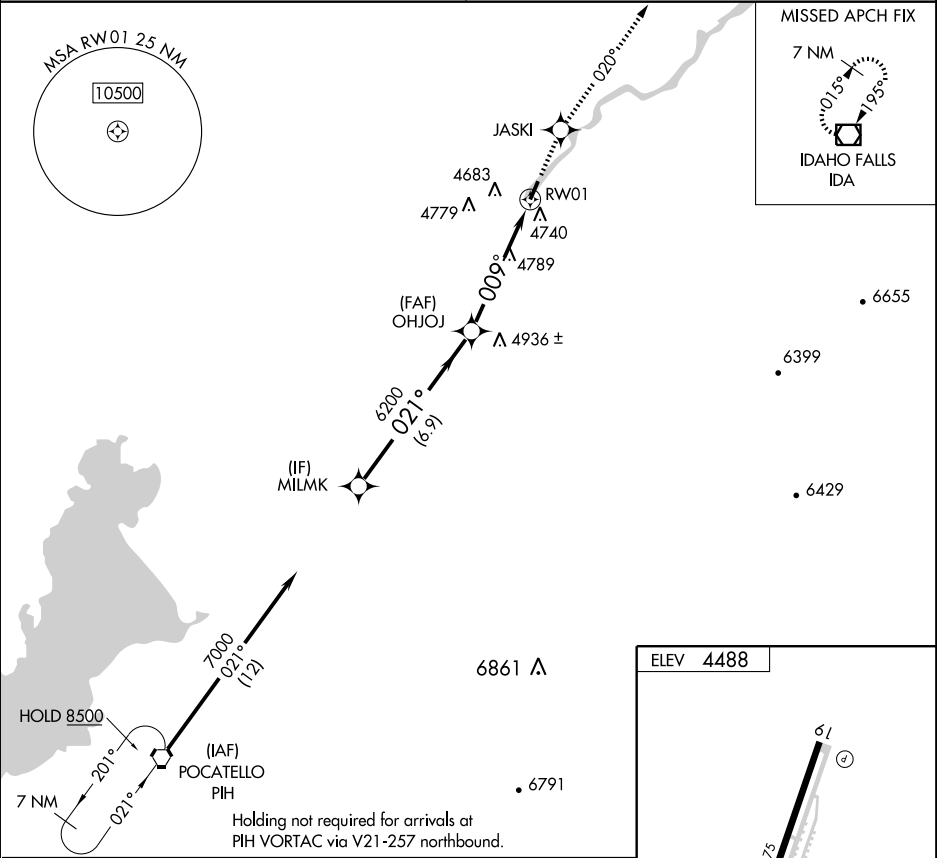
APP CRS	Rwy Idg	N/A
009°	TDZE	N/A
	Apt Elev	4488

▼ Use Pocatello Rgnl altimeter setting, when not received
▲ NA use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

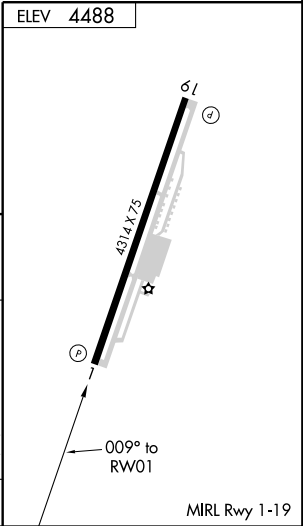
MISSED APPROACH: Climb to 7000 direct JASKI and via 020° track to IDA VOR/DME and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



	MILMK		7000	JASKI	020° track	IDA
		OHJOJ				
	7000	021°	3.05° TCH 40	RW01		
	Procedure Turn NA	6200	009°			
	6.9 NM	5.2 NM				
CATEGORY	A	B	C	D		
CIRCLING	5380-1¼ 892 (900-1¼)		5380-2¾ 892 (900-2¾)	5380-3 892 (900-3)		

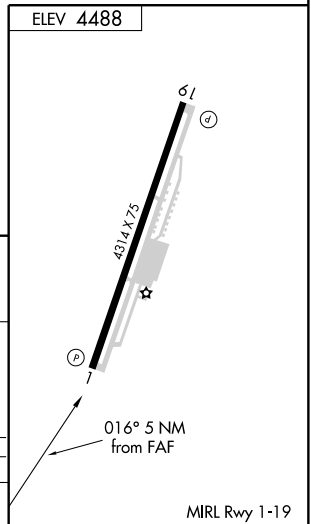
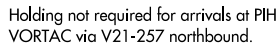


BLACKFOOT/MCCARLEY FIELD (U02)

Rwy Idg	N/A
TDZE	N/A
Apt Elev	4488

MISSED APPROACH: Climb to 7000 direct IDA VOR/DME and hold.

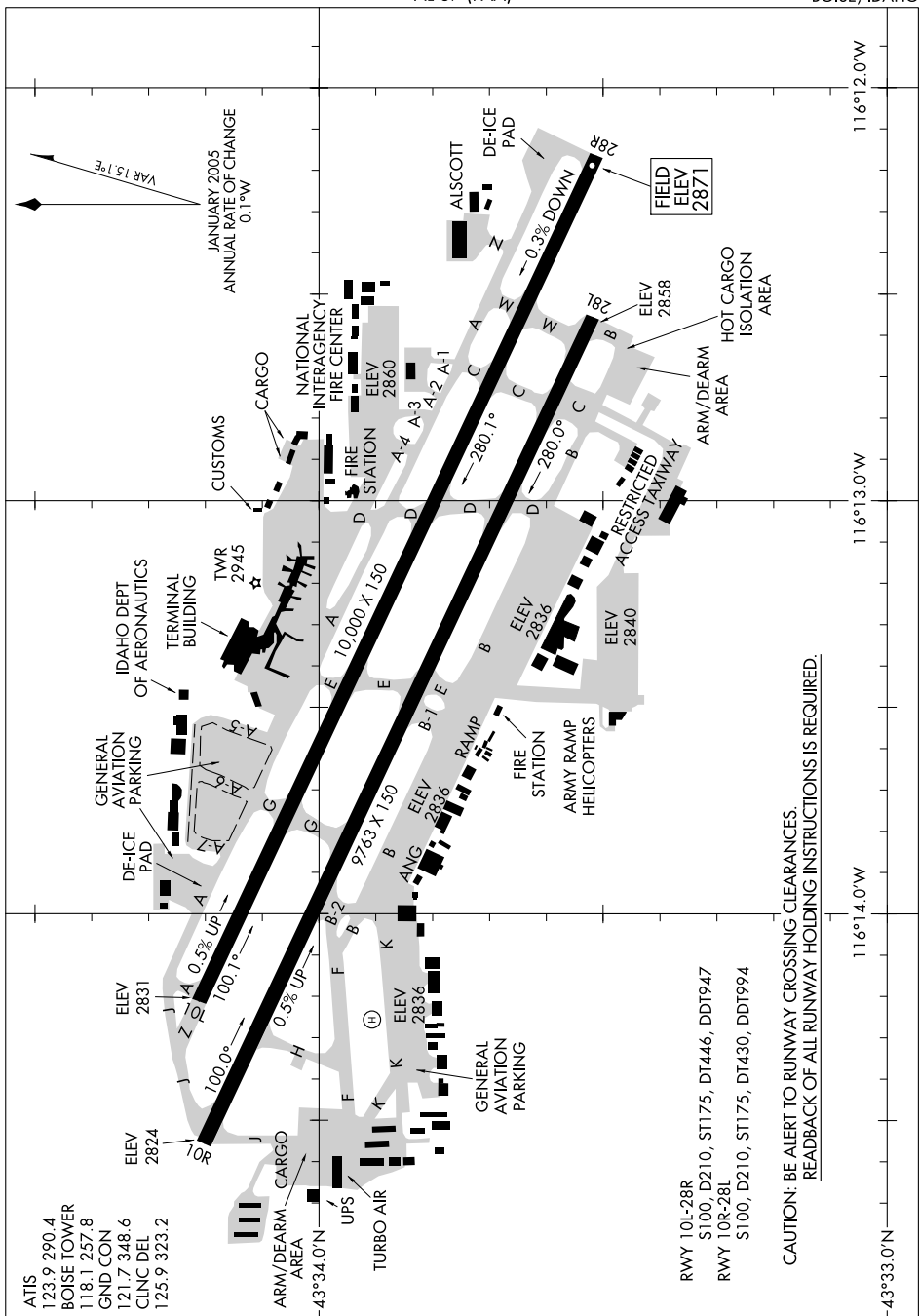
UNICOM
122.8 (CTAF)



NW-1. 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)
AL-57 (FAA) BOISE, IDAHO



NW-1, 22 OCT 2009 to 19 NOV 2009

LOC I-BOI 111.1	APCH CRS 098°	Rwy Idg TDZE Arpt Elev 9763 2833 2871
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JAL-57 [USAF]

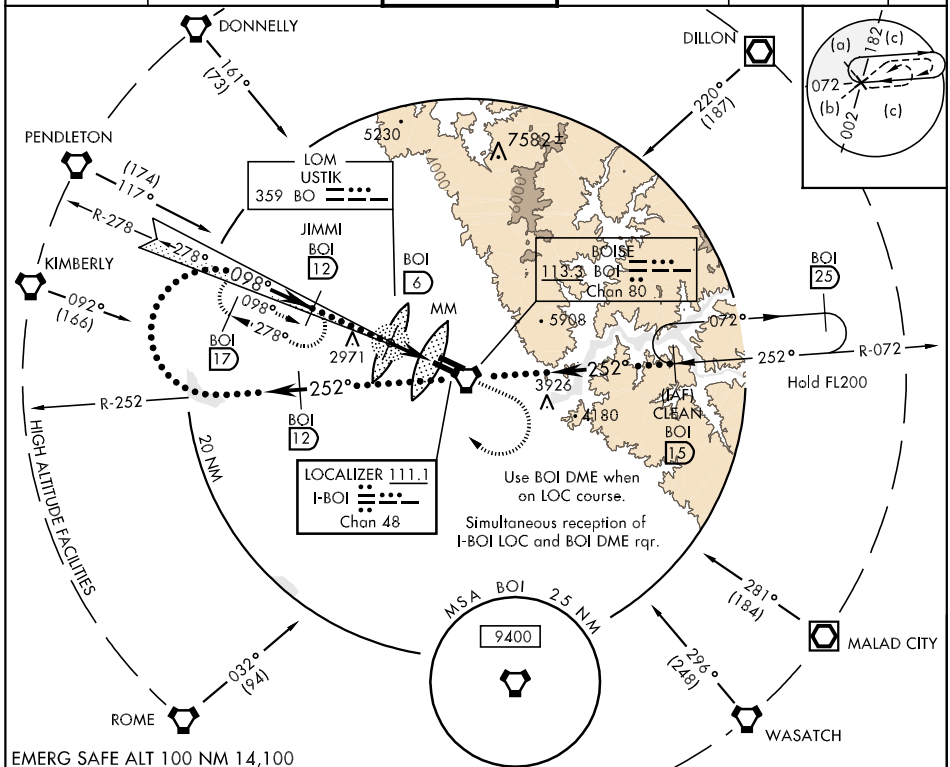
BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

▼ * When ALS inop, increase RVR to 40.
 ** When ALS inop, increase RVR to 50.
 *** Circling N of Rwy 10L-28R NA.



MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI INT and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100

3700 ↑	5000 Hdg 320°	JIMMI BOI R-278 12	R-252 BOI 12	CLEAN BOI R-072 1.5	ELEV 2871	HIRL Rwy 10L-28R and 10R-28L REIL Rwy 10L
Right at 12,000 within 25 NM	GS 3.00° TCH 55	JIMMI BOI 12	LOM BOI 6	VORTAC 252° FL200	098° 3.6 NM from FAF TDZE 2833	TWR 2945
		5500	4020	4100	2887	2908
		3.1 NM	.5		2897	281-28R
CATEGORY	C	D	E			
S-ILS 10R *	3033/18	200 (200-½)	3033/24 200 (200-½)			
S-LOC 10R **	3120/24 287 (300-½)	3120/40	287 (300-¾)			
CIRCLING ***	3320-1½ 452 (500-1½)	3420-2 552 (600-2)	3680-3 812 (900-3)			

BOISE, IDAHO

43°34'N-116°13'W

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

Amdt 2A 09071

HI-ILS Rwy 10R

VORTAC BOI 113.3 Chan 80	APCH CRS 098°	Rwy Idg 9763 TDZE 2833 Arpt Elev 2871
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JAL-57 [USAF]

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

T * When ALS inop, increase CAT C RVR to 50 and CAT F RVR to 60.

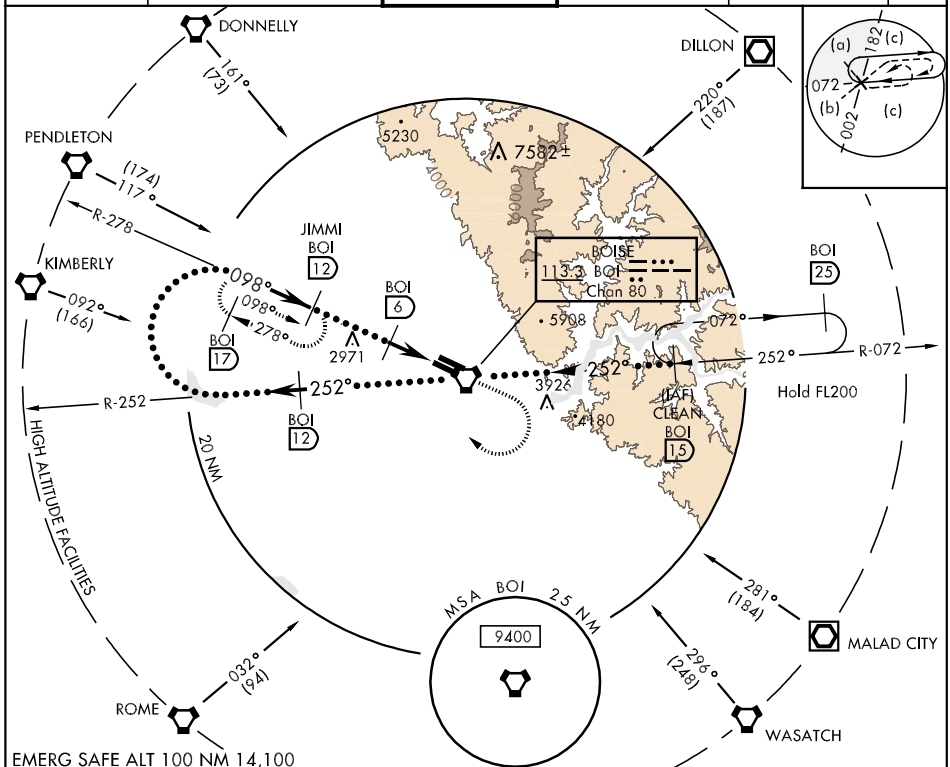
** Circling N of Rwy 10L-28R NA.

SSALR

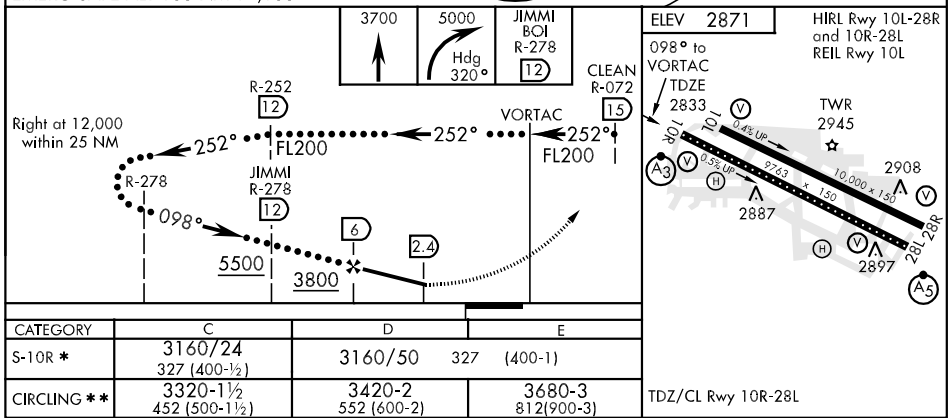


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI INT and hold

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL	ASOS
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2	



NW-1, 22 OCT 2009 to 19 NOV 2009



BOISE, IDAHO

43°34'N-116°13'W

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

Orig A 09071

UNION/PALESTINE INTERNATIONAL

VORTAC BOI 113.3 Chn 80	APCH CRS 278°	Rwy Idg TDZE Arpt Elev 9763 2855 2871
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JAL-57 [USAF]

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

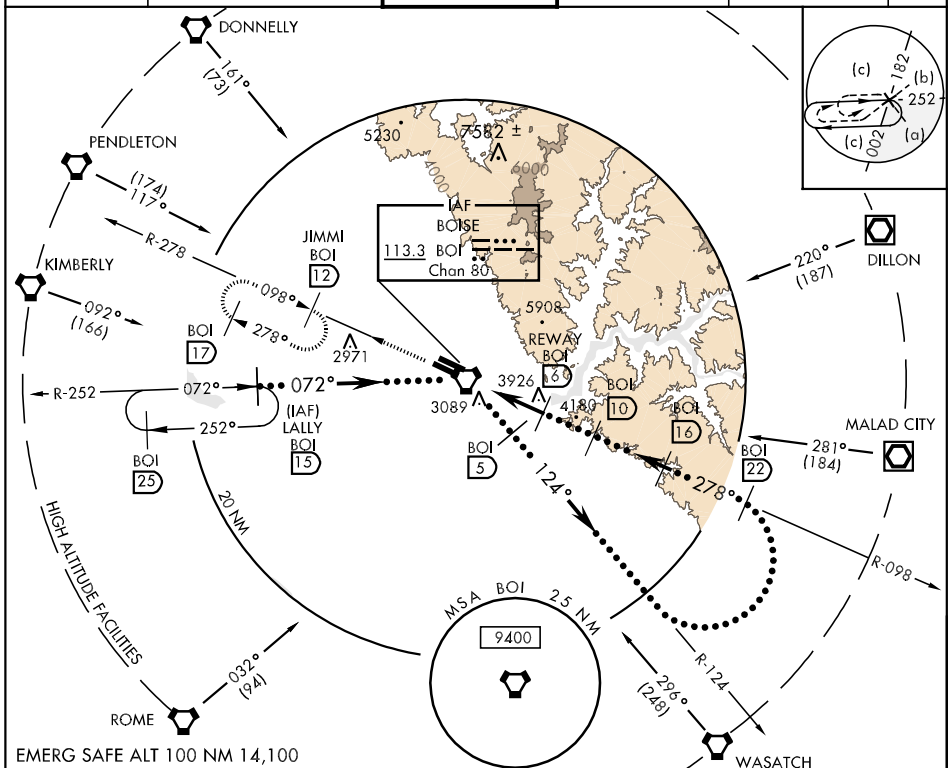
- ▼ * When ALS inop, increase vis ½ mile.
 ** Circling N of Rwy 10L-28R NA.

MALSR

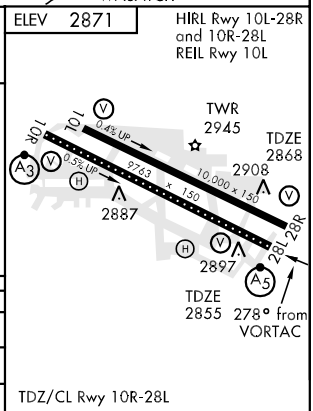
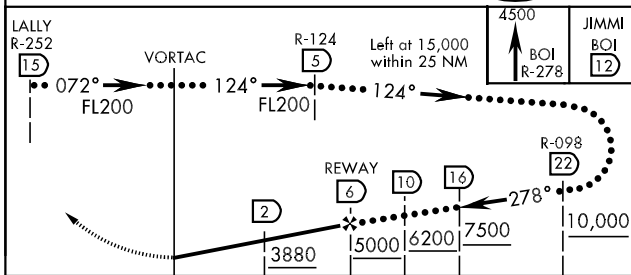


MISSED APPROACH: Climb to 4500 via BOI VORTAC
 R-278 to JIMMI and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100



CATEGORY	C	D	E
S-28L *	3360/50 505 (500-1)	3360/60 505 (500-1½)	
SIDESTEP Rwy 28R	3360-1¾ 492 (500-1¾)	3360-2¼ 492 (500-2¼)	
CIRCLING **	3360-1½ 492 (500-1½)	3420-2 552 (600-2)	3680-3 812 (900-3)

TDZ/CL Rwy 10R-28L

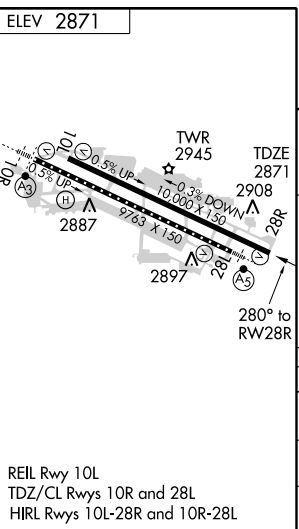
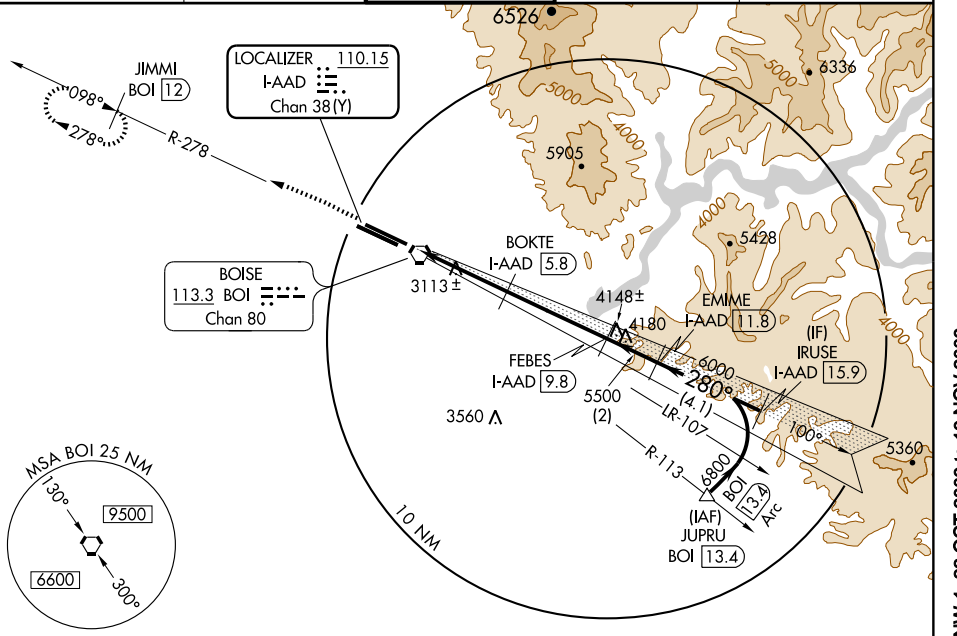
LOC/DME I-AAD	APP CRS	Rwy Idg	10000
110.15	280°	TDZE	2871
Chan 38 (Y)		Apt Elev	2871

◀

Circling NA north of Rwy 10L-28R.

MISSED APPROACH: Climb to 4000 then climbing left turn to 4500 via heading 279° and via BOI VORTAC R-278 to JIMMI/BOI 12 DME and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



DME REQUIRED				
<div><div>4000</div><div>4500</div><div>279°</div></div> <div>BOI R-278 113.3</div> <div>JIMMI BOI 12</div> <div>Use I-AAD DME when on the localizer course</div> <div>Procedure Turn NA</div> <div>IRUSE I-AAD 15.9</div>				
<div>*LOC only</div> <div><div>I-AAD 1.9</div><div>I-AAD 3.3</div><div>I-AAD 5.8</div><div>I-AAD 9.8</div><div>I-AAD 11.8</div></div> <div>280°</div> <div>6800</div> <div>6000</div> <div>5500</div> <div>4200*</div> <div>GS 3.00° TCH 53</div>				
CATEGORY	A	B	C	D
S-ILS 28R	3071/40 200 (200-¾)			
S-LOC 28R	3380/50 509 (600-1)		3380-1½ 509 (600-1½)	
CIRCLING	3380-1 509 (600-1)		3380-1½ 509 (600-1½) 3440-2 569 (600-2)	

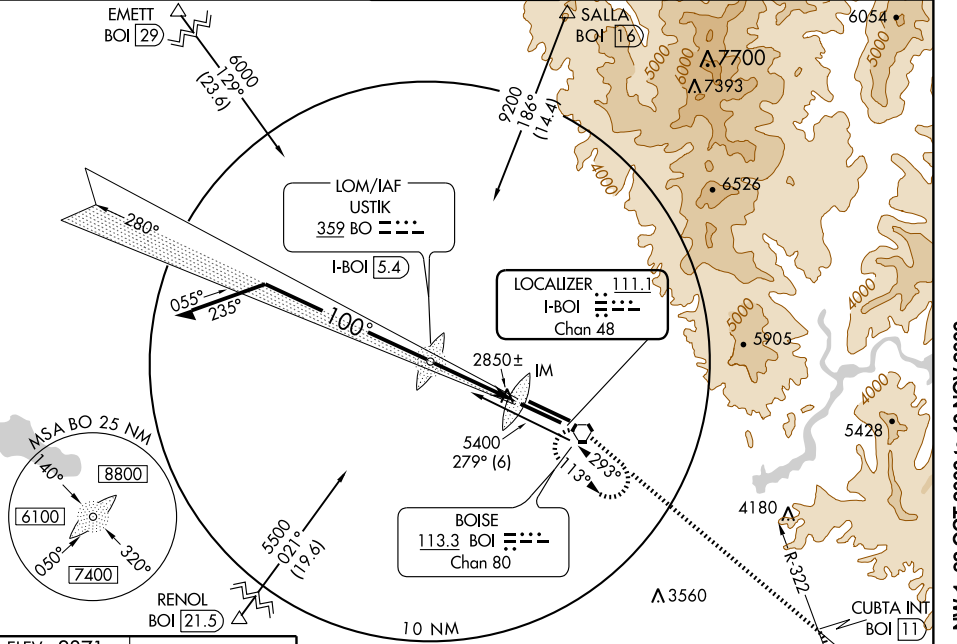
NW-1. 22 OCT 2009 to 19 NOV 2009

For inoperative MALSR, increase S-LOC 10R Cat. D visibility to RVR 5000.
Circling NA north of Rwy 10L-28R.
Visibility reduction by helicopters NA for sidestep.

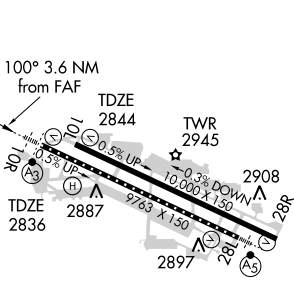
SSALR

MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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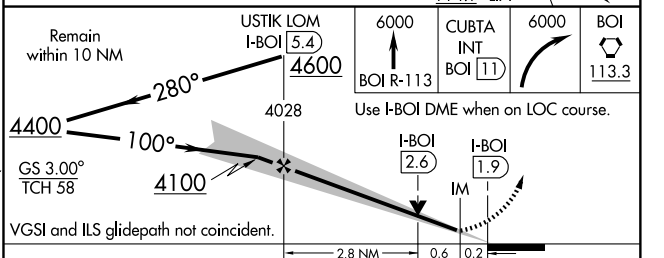
ELEV 2871



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

ADF or DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 10R	3036/18 200 (200-½)			
S-LOC 10R	3120/24 284 (300-½)			3120/40 284 (300-¾)
SIDESTEP RWY 10L	3120-1 276 (300-1)	3120-1½ 276 (300-1½)		3120-2 276 (300-2)
CIRCLING	3300-1 429 (500-1)	3340-1 469 (500-1)	3340-1½ 469 (500-1½)	3440-2 569 (600-2)

LOC/DME I-BOI <u>111.1</u> Chan 48	APP CRS 100°	Rwy Idg 9763 TDZE 2836 Apt Elev 2871
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ILS RWY 10R (CAT II)

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

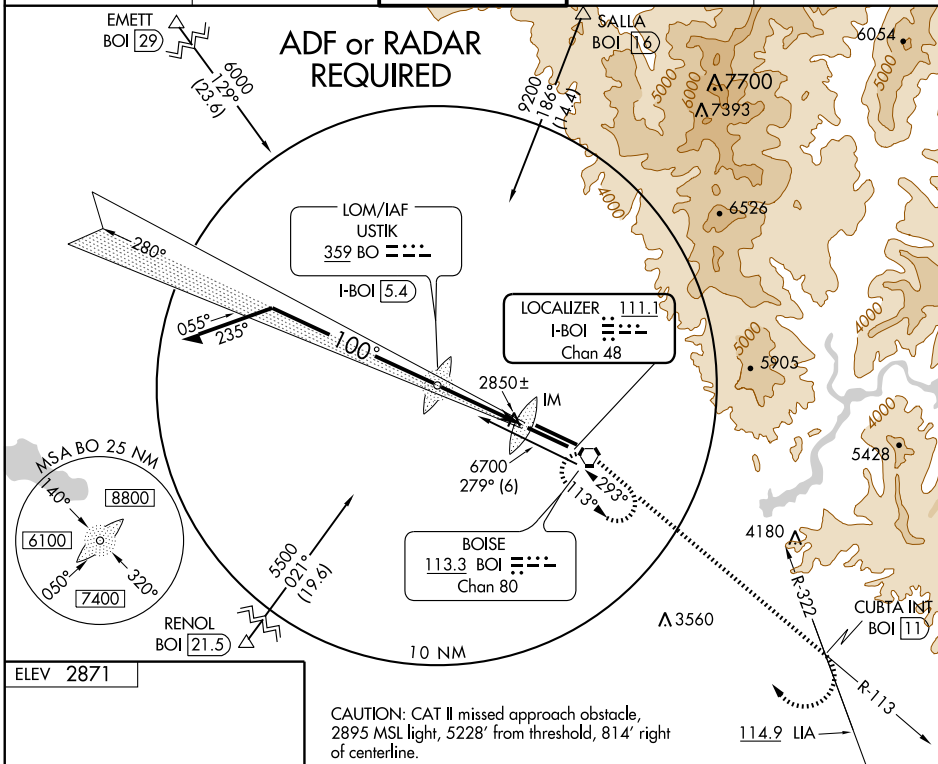
T Circling NA north of Rwy 10L-28R.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSPEC approval or LOA for this runway.

SSALR

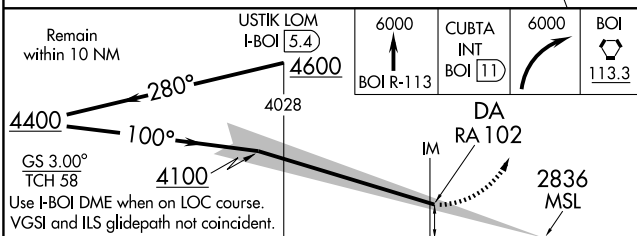
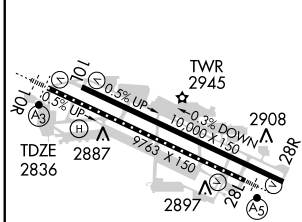


MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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CAUTION: CAT II missed approach obstacle, 2895 MSL light, 5228' from threshold, 814' right of centerline.



CATEGORY	A	B	C	D
S-ILS 10R	2936/12 100 RA 102			

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

LOC/DME I-BOI 111.1 Chan 48	APP CRS 280°	Rwy Idg 9763 TDZE 2858 Apt Elev 2871
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LOC BC RWY 28L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T For inoperative MALSR, increase S-28L Cat. E visibility to 1½.
A Circling NA north of Rwy 10L-28R.
DME or RADAR required.



MISSED APPROACH: Climb to 4500 via BOI
VORTAC R-278 to JIMMI/12 DME/RADAR
and hold.

ATIS
123.9 290.4

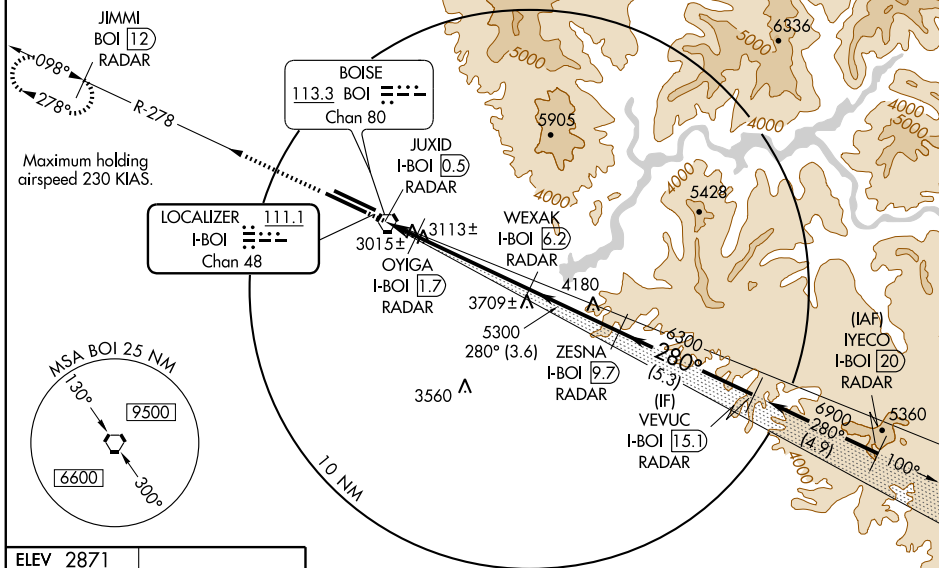
BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

GND CON
121.7 348.6

CLNC DEL
125.9 323.2

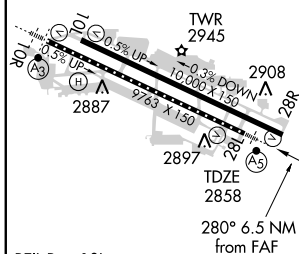
RADAR REQUIRED



NW-1. 22 OCT 2009 to 19 NOV 2009

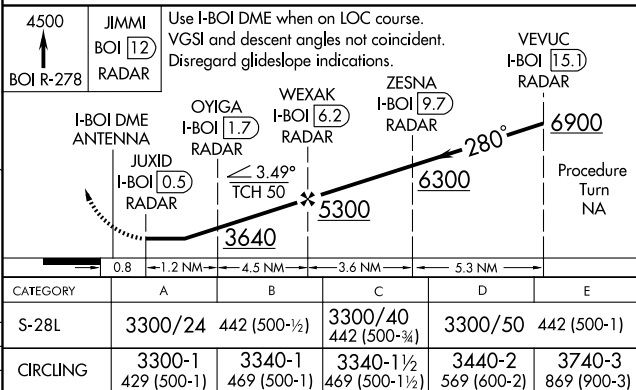
ELEV 2871

BACK COURSE



REIL Rwy 10L	from
TDZ/CL Rwy 10R and 28L	
HIRL Rwy 10L-28R and 10R-28L	
FAF to MAP 5.7 NM	


Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



BO NDB 359	APP CRS 102°	Rwy Idg TDZE Apt Elev	9763 2836 2871
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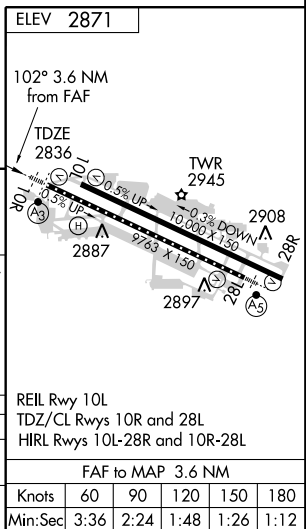
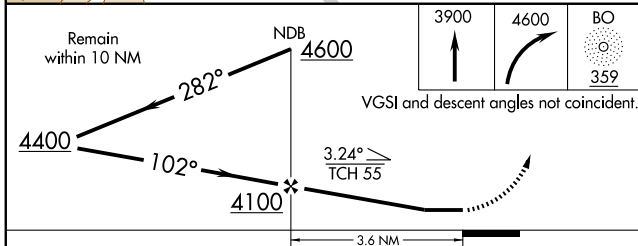
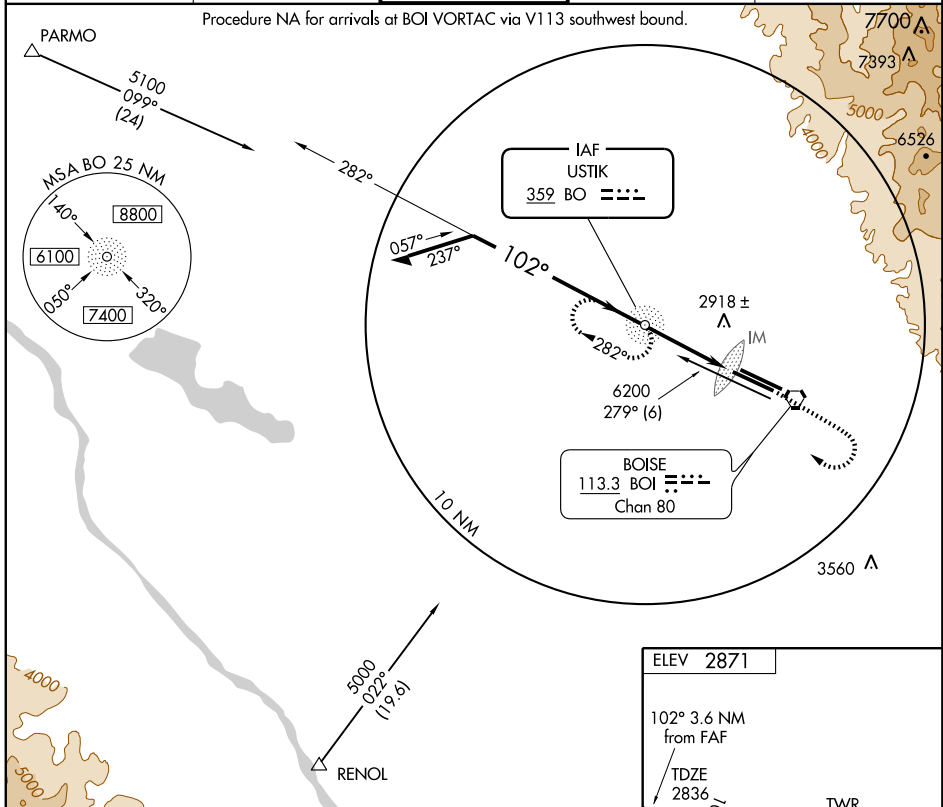
NDB RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

<p>T For inoperative MALSR, increase S-10R Cat C visibility to RVR 5000. Circling NA north of Rwy 10L-28R.</p>	<p>SSALR</p> 	<p>MISSED APPROACH: Climb to 3900 then climbing right turn to 4600 direct BO NDB and hold.</p>
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at BOI VORTAC via V113 southwest bound.



WAAS CH 78102 W10A	APP CRS 100°	Rwy Idg 10000 TDZE 2844 Apt Elev 2871
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RNAV (GPS) Y RWY 10L

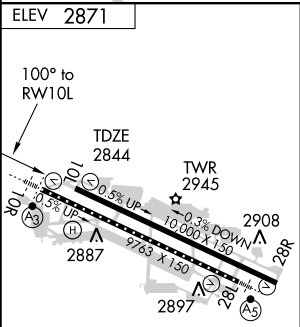
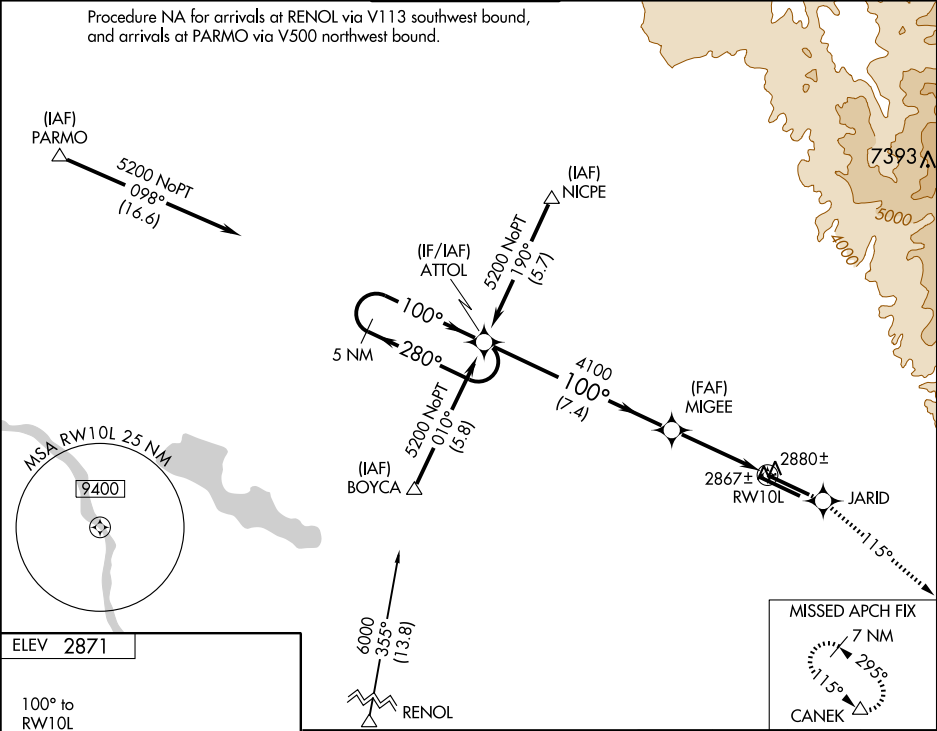
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

▼

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (108°F).
Circling NA north of Rwy 10L and 28R. DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 7200 direct JARID and via track 115° to CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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5 NM Holding Pattern		ATTOL	7200	JARID	trk 115°	CANEK
5200		280°	100°	100°	*LNAV only	
GS 3.00° TCH 53		4100	7.4 NM	2.6 NM	1.2	
CATEGORY	A	B	C	D		
LPV DA	3094-1		250 (300-1)			
LNAV/VNAV DA	3173-1¼		329 (400-1¼)			
LNAV MDA	3280-1	436 (500-1)	3280-1¼ 436 (500-1¼)	3280-1½ 436 (500-1½)		
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)		

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

WAAS CH 40203 W10B	APP CRS 100°	Rwy Idg TDZE 2836 Apt Elev 2871
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RNAV (GPS) Y RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOT)

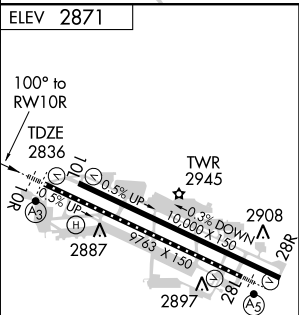
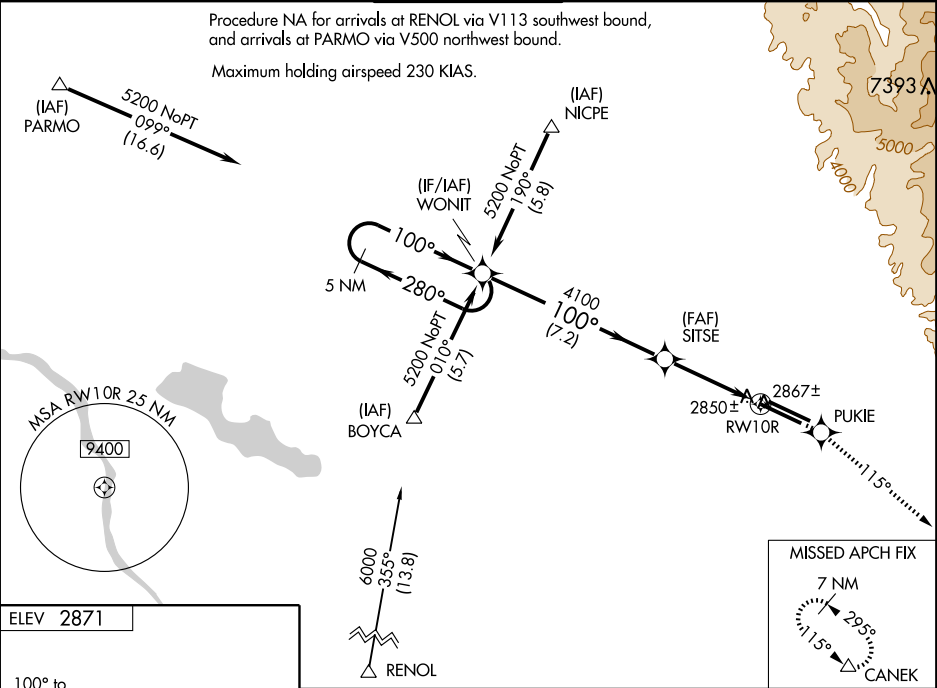
⚠ For inoperative SSALR, increase LNAV Cat. D visibility to RVR 6000.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (107°F).
Circling NA north of Rwys 10L and 28R.
DME/DME RNP- 0.3 NA.

SSALR

MISSED APPROACH: Climb to 7200
direct PUKIE and via track 115° to
CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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VGSI and RNAV glidepath not coincident.

5 NM Holding Pattern

WONIT

5200 ← 280° 100° →

GS 3.00° TCH 58

SITSE

4100

7.2 NM

2.7 NM

1.1 NM

7200

PUKIE

trk 115°

CANEK

* 1.1 NM to RWY 10R

* LNAV only

CATEGORY	A	B	C	D	E
LPV DA			3086/24	250 (300-½)	
LNAV/VNAV DA			3189/40	353 (400-¾)	
LNAV MDA	3240/24	404 (400-½)	3240/40 404 (400-¾)	3240/50 404 (400-1)	
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)	3860-3 989 (1000-3)

REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

WAAS CH 77702 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev	9763 2858 2871
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RNAV (GPS) Y RWY 28L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

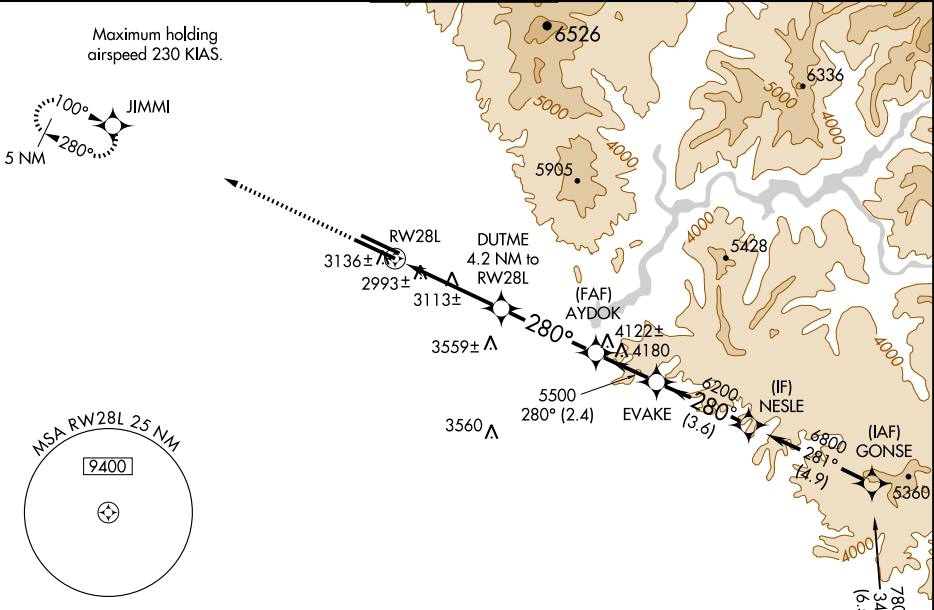
T Circling NA north of Rwy 10L-28R. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.
A For inoperative MALS, increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat E to 1½, and LNAV Cat E to 2¼.

MALS

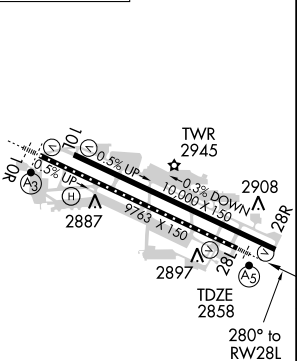


MISSED APPROACH: Climb to 6000 direct JIMMI and hold, continue climb-in-hold to 6000.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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ELEV 2871



Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.

CANEK

	6000	JIMMI							
			DUTME 4.2 NM to RW28L	AYDOK	EVAKE	NESLE			
						6800			
						6200			
							Procedure Turn NA		
							GS 3.00° TCH 50		
			1.8 NM	2.4 NM	3.8 NM	2.4 NM	3.6 NM		
CATEGORY			A	B	C	D	E		
LPV DA								3183/24	325 (400-½)
LNAV/VNAV DA								3274/50	416 (500-1)
LNAV MDA			3480/24	622 (700-½)	3480/60 622 (700-1¼)	3480-1½ 622 (700-1½)	3480-1¾ 622 (700-1¾)		
CIRCLING			3480-1	609 (700-1)	3480-1¾ 609 (700-1¾)	3480-2 609 (700-2)	3860-3 989 (1000-3)		

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

WAAS CH 65803 W28B	APP CRS 280°	Rwy Idg 10000 TDZE 2871 Apt Elev 2871
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RNAV (GPS) Y RWY 28R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
DME/DME RNP-0.3 NA. Circling NA north of Rwy 10L-28R.

MISSED APPROACH: Climb to 6000 direct ATTOL and hold, continue climb-in-hold to 6000.

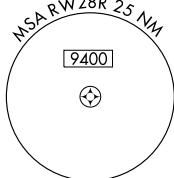
ATIS
123.9 290.4

BOISE APP CON
119 6 269 4

BOISE TOWER
118.1 257.8

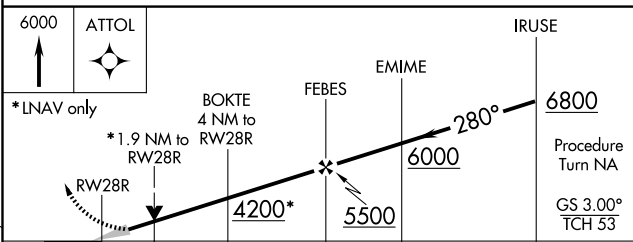
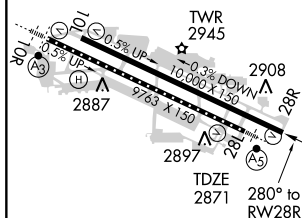
GND CON
121.7 348.6

CLNC DEL
125.9 323.2



ELEV 2871

Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.



CATEGORY		A	B	C	D
LPV	DA	3147/50 276 (300-1)			
LNAV/ VNAV	DA	3271-1½ 400 (400-1½)			
LNAV	MDA	3520/50 649 (700-1)	3520-1¾ 649 (700-1¾)	3520-2 649 (700-2)	
CIRCLING		3520-1 649 (700-1)	3520-1¾ 649 (700-1¾)	3520-2 649 (700-2)	

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

APP CRS	Rwy Idg	10000
100°	TDZE	2844
	Apt Elev	2871

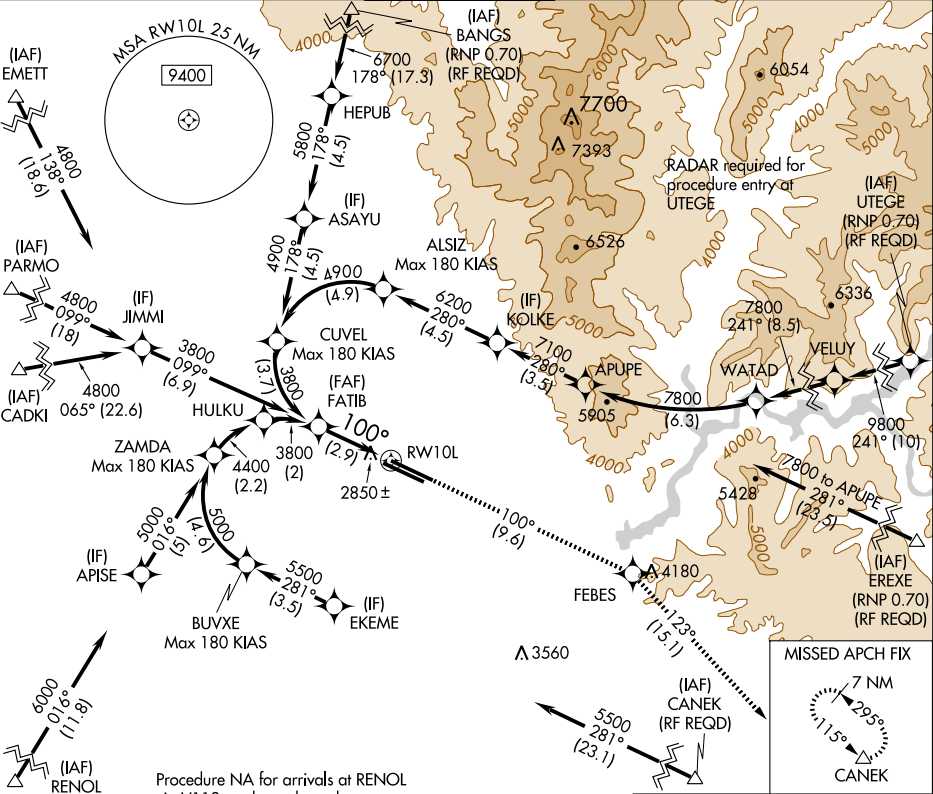
RNAV (RNP) Z RWY 10L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 41°C (107°F). When VGSI inoperative, procedure NA at night. Visibility reduction by helicopters NA.

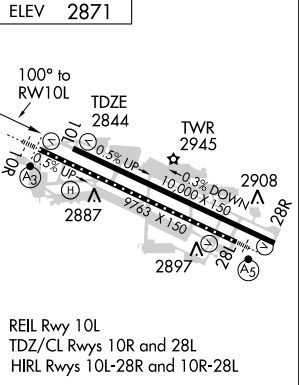
MISSED APPROACH: Climb to 7200 via track 100° to FEBES and via track 123° to CANEK and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



Procedure Turn NA	FATIB 3800	7200	FEBES	trk 100°	trk 123°	CANEK
GP 3.00° TCH 53	3800	100°	RW10L	2.9 NM		
CATEGORY	A	B	C	D		
RNP 0.18 DA		3145-1	301 (300-1)			
RNP 0.30 DA		3175-1¼	331 (400-1¼)			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



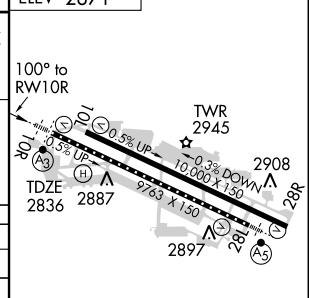
REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

NW-1, 22 OCT 2009 to 19 NOV 2009

RNAV (RNP) Z RWY 10R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 7200 via track 100° to AYDOK and via track 122° to CANEK and hold.

CLNC DEL
125.9 323.2



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

RNAV (RNP) Z RWY 28L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

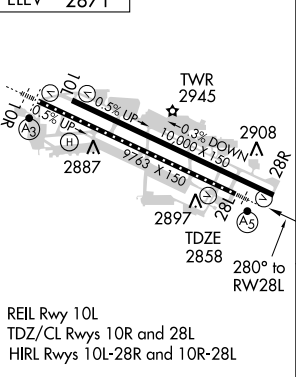
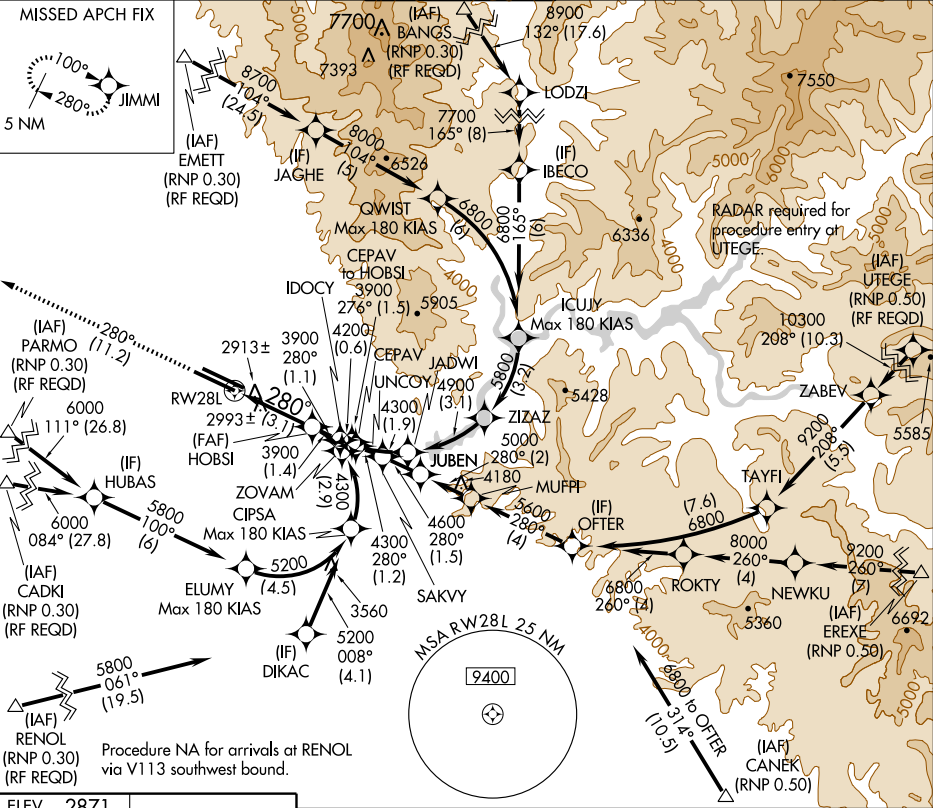
APP CRS	Rwy Idg	9763
280°	TDZE	2858
	Apt Elev	2871


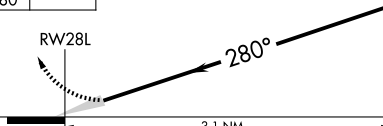
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). For inoperative MALSR increase RNP 0.15 and RNP 0.25 visibility to RVR 6000, and RNP 0.30 to 1½.



MISSED APPROACH: Climb to 6000 via track 280° to JIMMI and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



6000	JIMMI	HOBSI	Procedure Turn NA	
↑ trk 280°		3900		
		3900	GP 3.00° TCH 50	
CATEGORY	A	B	C	D
RNP 0.15 DA		3228/40	370 (400-¾)	
RNP 0.25 DA		3250/50	392 (400-1)	
RNP 0.30 DA		3315/60	457 (500-1¼)	
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED				

RNAV (RNP) Z RWY 28R

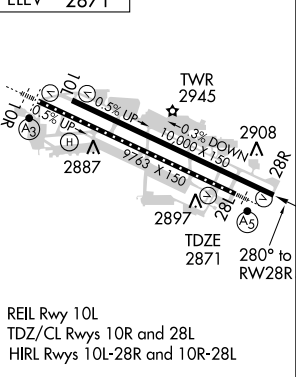
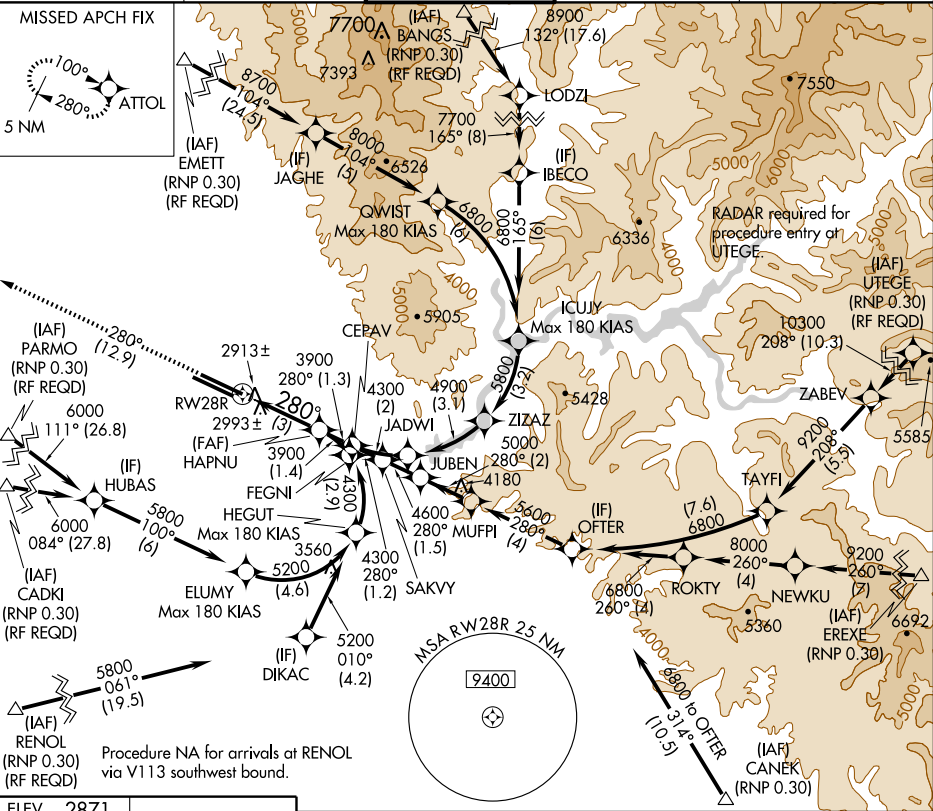
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

APP CRS	Rwy Idg	10000
280°	TDZE	2871
	Apt Elev	2871

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 via track 280° to ATTOL and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED

VORTAC BOI 113.3 Chan 80	APP CRS 101°	Rwy Idg 10000 TDZE 2844 Apt Elev 2871
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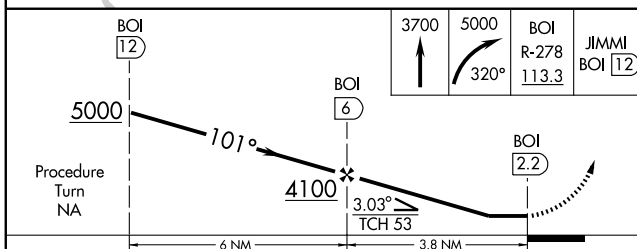
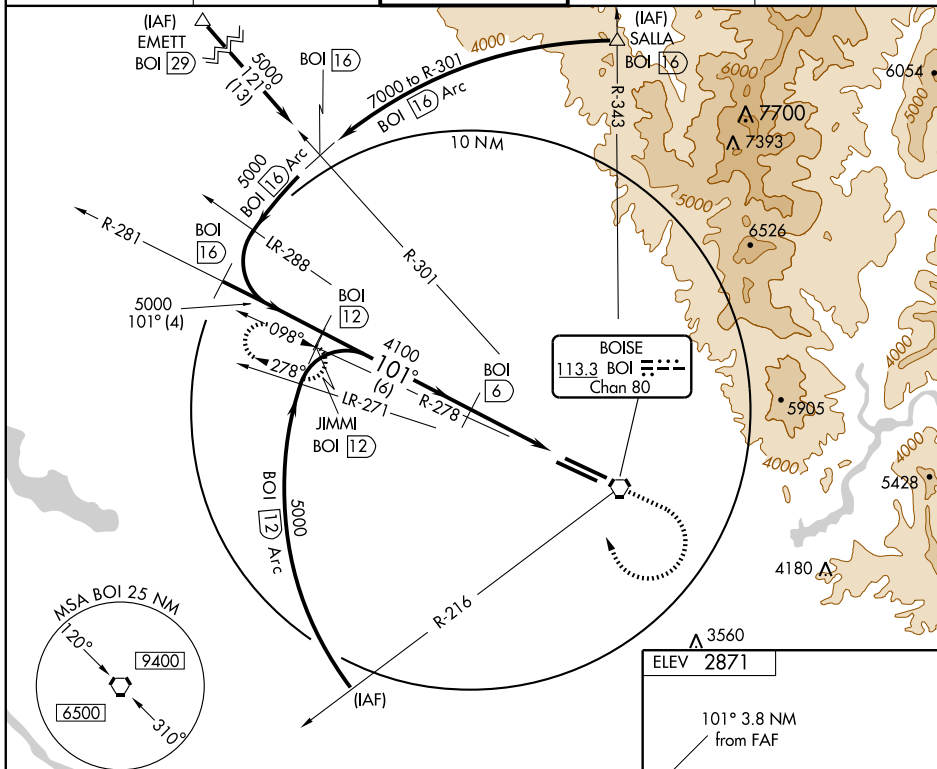
VOR/DME or TACAN RWY 10L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

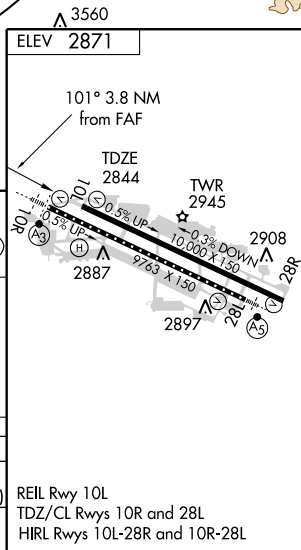
T Circling not authorized north of Rwy 10L-28R.

MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° and BOI R-278 to JIMMI INT and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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CATEGORY	A	B	C	D	E
S-10L	3180-1 336 (400-1)				3180-1½ 336 (400-1½)
CIRCLING	3300-1 429 (500-1)	3340-1 469 (500-1)	3340-1½ 469 (500-1½)	3440-2 569 (600-2)	3740-3 869 (900-3)



BOISE, IDAHO

AL-57 (FAA)

VOR/DME or
TACAN RWY 28L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

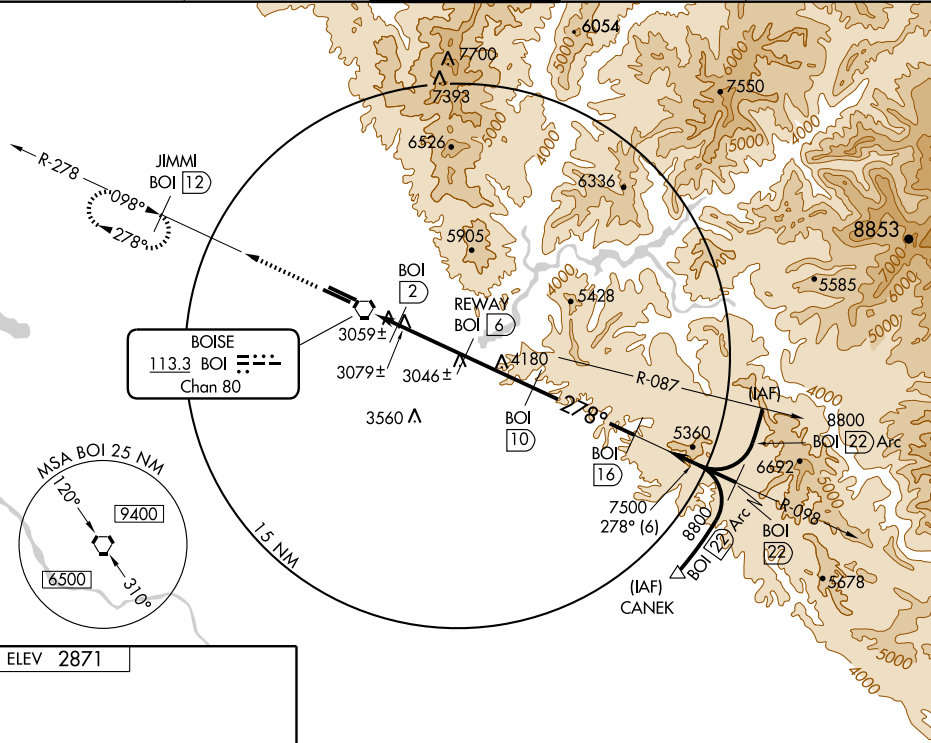
VORTAC BOI 113.3 Chan 80	APP CRS 278°	Rwy Idg 28L 9763 TDZE 2858 Apt Elev 2871	Rwy Idg 28R 10000 TDZE 2871 Apt Elev 2871
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- ⚠ Circling not authorized north of Rwy 10L-28R.
- ⚠ For inoperative MALSR increase Cat E visibilities ½ mile.

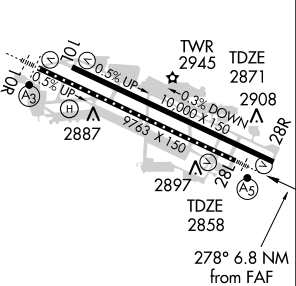
MALSR
Rwy 28L

MISSED APPROACH: Climb to 4500 via BOI R-278 to JIMMI and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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ELEV 2871



REIL Rwy 10L
TDZ/CL Rws 10R and 28L
HIRL Rws 10L-28R and 10R-28L

	4500	JIMMI BOI 12	REWAY BOI 6	BOI 10	BOI 16
	BOI R-278				
		3880	5000	6200	7500
					Procedure Turn NA
	0.8	2 NM	4 NM	6 NM	
CATEGORY	A	B	C	D	E
S-28L	3380/24	522 (600-½)	3380/50 522 (600-1)	3380/60	522 (600-1¼)
SIDESTEP RWY 28R	3380/60	509 (600-1¼)	3380-1¾ 509 (600-1¾)	3380-2¼	509 (600-2¼)
CIRCLING	3380-1	509 (600-1)	3380-1½ 509 (600-1½)	3440-2 569 (600-2)	3740-3 869 (900-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

VORTAC BOI 113.3 Chan 80	APP CRS 098°	Rwy Idg 9763 TDZE 2833 Apt Elev 2868
--	------------------------	---

VOR/DME RWY 10R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T Inoperative table does not apply to Cat D.
Circling not authorized north of Rwy 10L-28R.



MISSED APPROACH: Climb to 3900 via BOI R-113 within 6 NM, then climbing right turn to 6000 direct BOI VORTAC and hold.

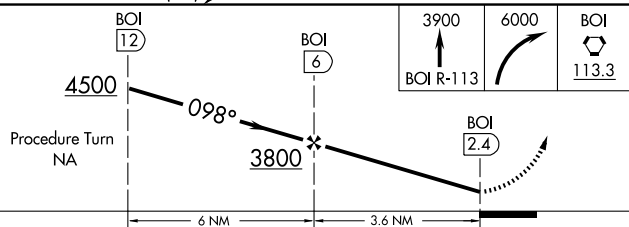
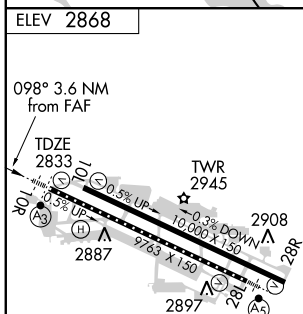
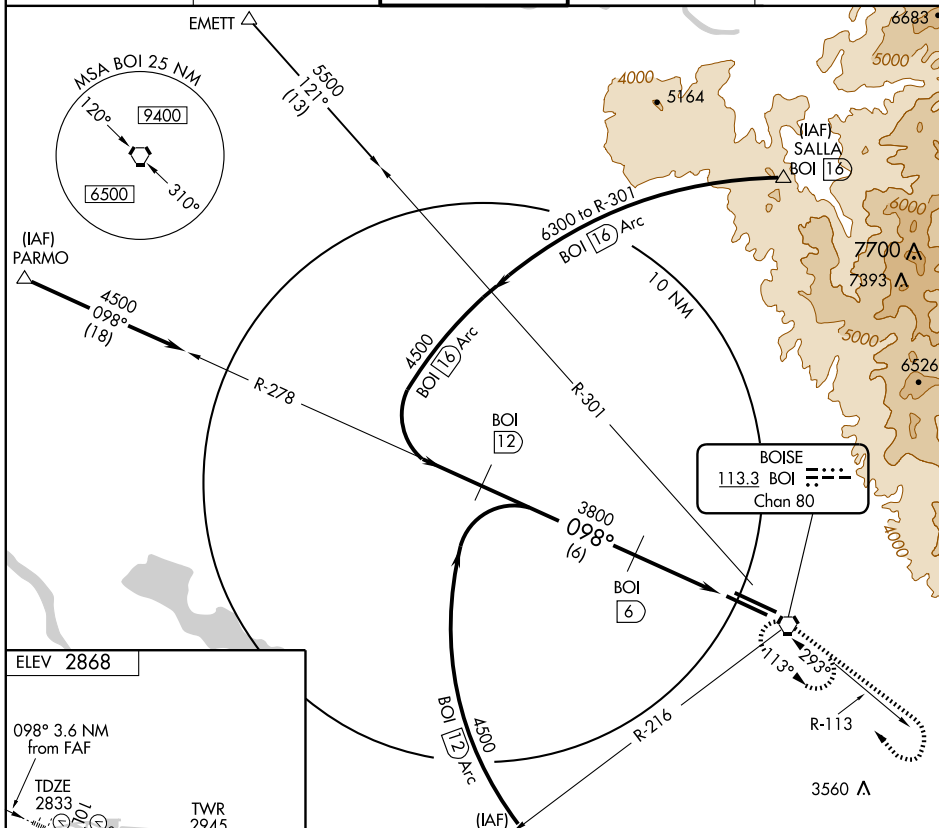
ATIS
123.9 290.4

BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

GND CON
121.7 348.6

CLNC DEL
125.9 323.2



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

CATEGORY	A	B	C	D
S-10R	3160/24 327 (400-½)			3160/50 327 (400-1)
CIRCLING	3300-1 432 (500-1)	3320-1 452 (500-1)	3320-1½ 452 (500-1½)	3420-2 552 (600-2)

APP CRS	Rwy Idg	3794
200°	TDZE	4149
	Apt Elev	4150

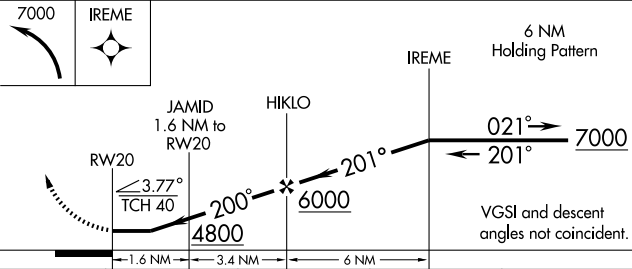
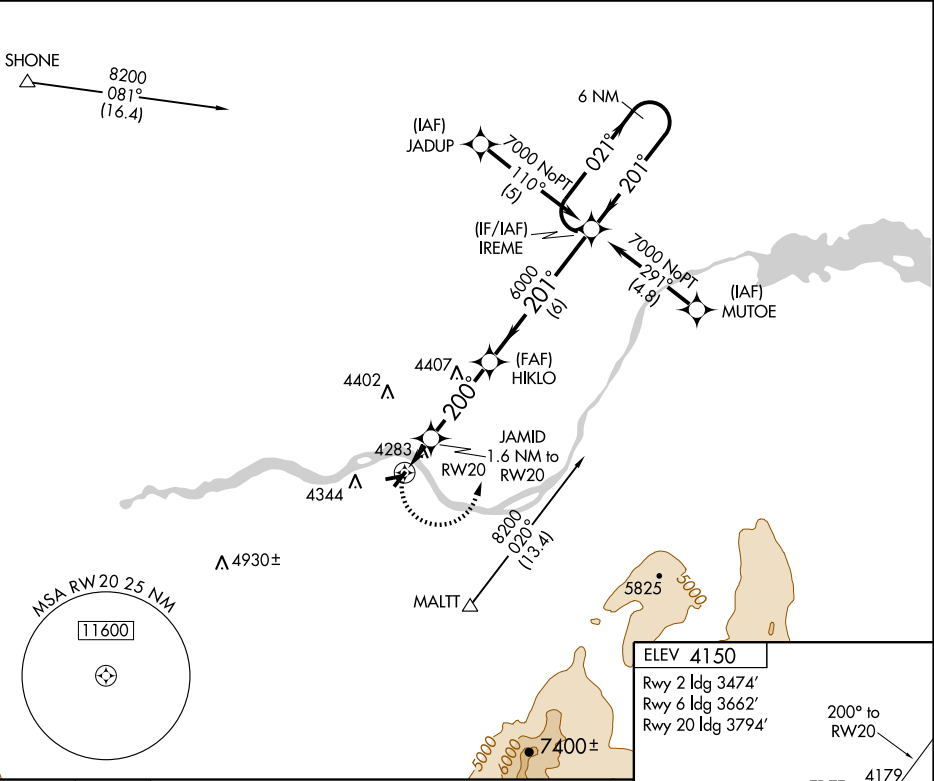
RNAV (GPS) RWY 20

BURLEY MUNI (B71)

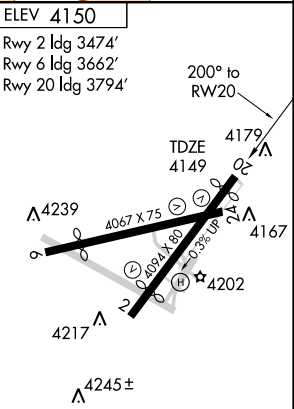
▼ If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs by 80 feet.
▲NA GPS or RNP -0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 7000 direct IREME WP and hold.

ASOS 135.575	TWIN FALLS APP CON★ 126.7 353.75	CTAF 122.9 0
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CATEGORY	A	B	C	D
LNAV MDA	4560-1 411 (500-1)		4560-1½ 411 (500-1½)	NA
CIRCLING	4660-1 510 (600-1)		4660-1½ 510 (600-1½)	NA

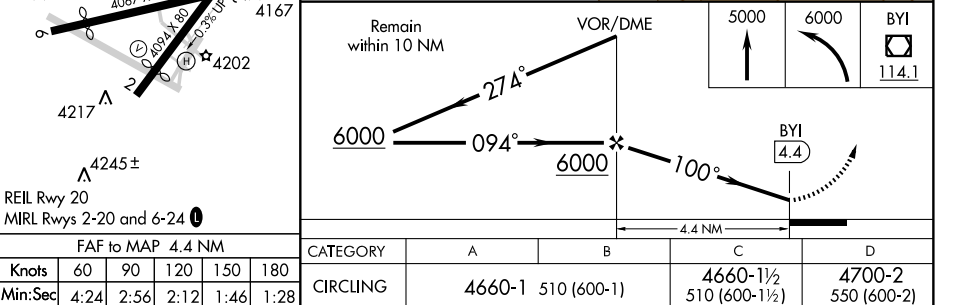
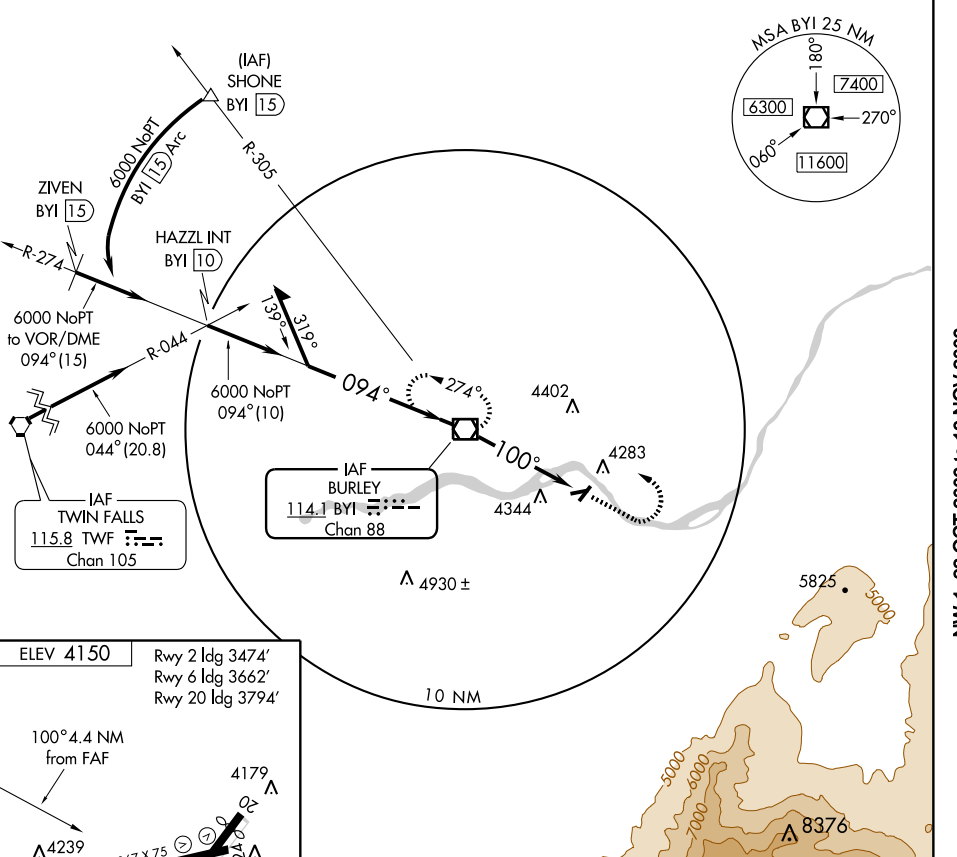


REIL Rwy 20
MIRL Rwy 20 and 6-24 **0**

▲ If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs 80 feet.

▲ MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct BYI VOR/DME and hold.

ASOS 135.575	TWIN FALLS APP CON ★ 126.7 353.75	CTAF 122.9
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NW-1. 22 OCT 2009 to 19 NOV 2009

AL-68 (FAA)

VOR/DME BYI <u>114.1</u> Chan 88	APP CRS 280°	Rwy Idg N/A TDZE N/A Apt Elev 4150
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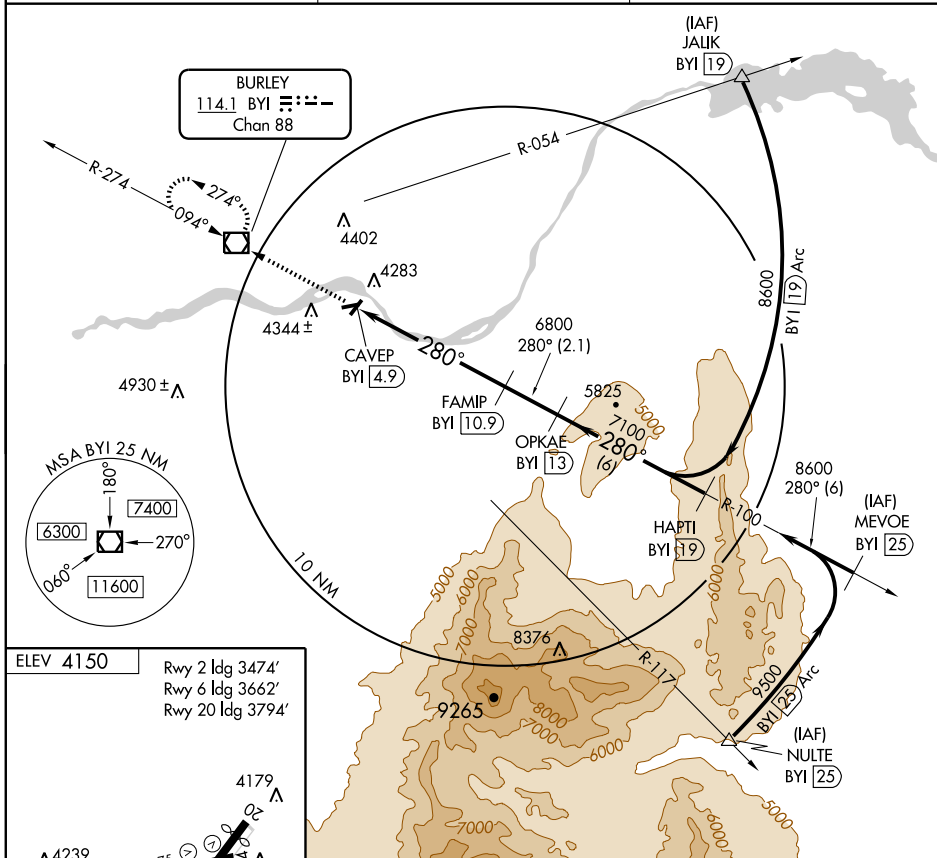
VOR/DME-B
BURLEY MUNI (BYI)

T If local altimeter setting not received, use Joslin Field-Magic
A Valley Rgnl altimeter setting and increase all MDAs 80 feet.

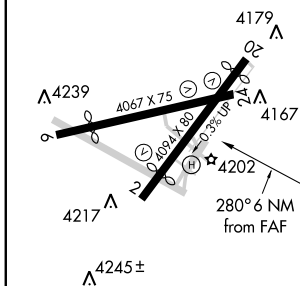
MISSED APPROACH: Climb to 6000 direct BYI VOR/DME and hold.

ASOS
135.575

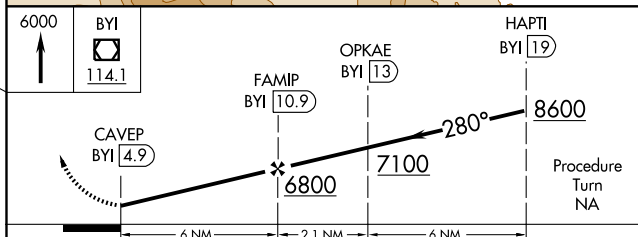
TWIN FALLS APP CON ★
126.7 353.75

CTAF
122.9 **L**

ELEV 4150	Rwy 2 ldg 3474'
	Rwy 6 ldg 3662'
	Rwy 20 ldg 3794'



REIL Rwy 20
MIRL Rwys 2-20 and 6-24 **L**



Knots	60	90	120	150	180
Min:Sec					

CATEGORY	A	B	C	D
CIRCLING	4660-1	510 (600-1)	4660-1½ 510 (600-1½)	4700-2 550 (600-2)

NW-1. 22 OCT 2009 to 19 NOV 2009

NDB MPA	APP CRS	Rwy Idg	5500
<u>238</u>	<u>281°</u>	TDZE	2432
		Apt Elev	2432

NDB RWY 30

CALDWELL INDUSTRIAL (EUL)

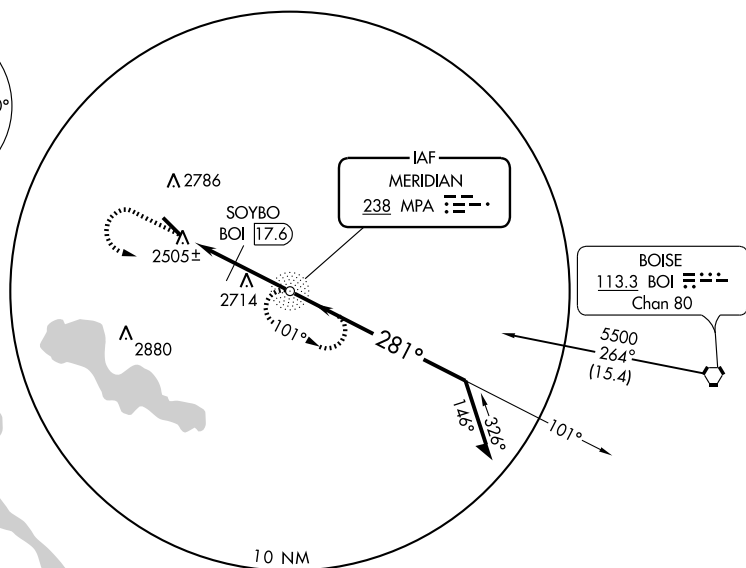
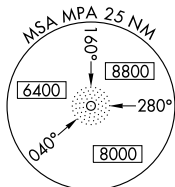
When local altimeter setting not received, use Boise altimeter setting and increase all MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5400 direct MPA NDB and hold, continue climb-in-hold to 5400.

AWOS-3
135.075

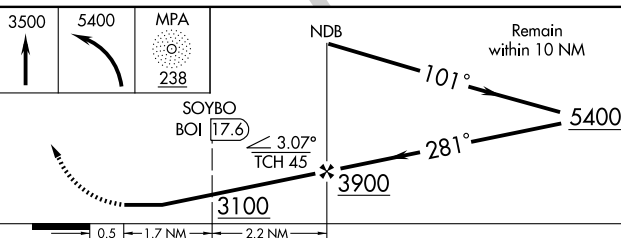
BOISE APP CON
119.6 269.4

UNICOM
122.7 (CTAF) 0

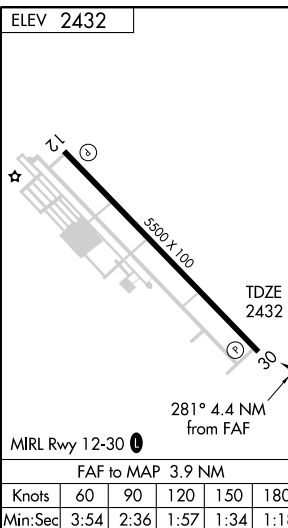


Λ 4316

• 4837



CATEGORY	A	B	C	D
S-30	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
DME MINIMUMS				
S-30	2940-1	508 (600-1)	2940-1½	508 (600-1½)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)



▼

▲

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 5000
direct ADEXE and hold.

AWOS-3 135.075	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrival at DAGNE via V500 northwest bound.

ELEV 2432

119° to RW12

TDZE 2431

5500 X 100

30

<div>5 NM Holding Pattern</div> <div>REDVE</div> <div>5000</div> <div>GS 3.00° TCH 42</div>				<div>5000</div> <div>ADEXE</div>			
<div>299°</div> <div>119°</div> <div>119°</div> <div>4100</div> <div>6.1 NM</div> <div>5.1 NM</div> <div>RW12</div>							
CATEGORY	A	B	C	D			
LPV DA	2700-1 269 (300-1)						
LNAV/VNAV DA	2994-2 563 (600-2)						
LNAV MDA	2840-1	409 (500-1)	2840-1½	409 (500-1½)			
CIRCLING	3100-1	668 (700-1)	3100-1¾	3100-2	668 (700-2)		

NW-1. 22 OCT 2009 to 19 NOV 2009

MISSED APPROACH: Climb to 2900 then climbing left turn to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

UNICOM
122.8 (CTAF) **L**



MIRL Rwy 1-19 **L**
HIRL Rwy 5-23 **L**
REIL Rws 1 and 23 **L**

NDB LEN 347	APP CRS 052°	Rwy Idg TDZE Apt Elev 7400 2290 2320
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NDB RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

▼ When local altimeter setting not received, use Spokane
▲ Intl altimeter setting and increase all MDA 80 feet and
 S-5 and circling Cat C visibility ¼ mile.

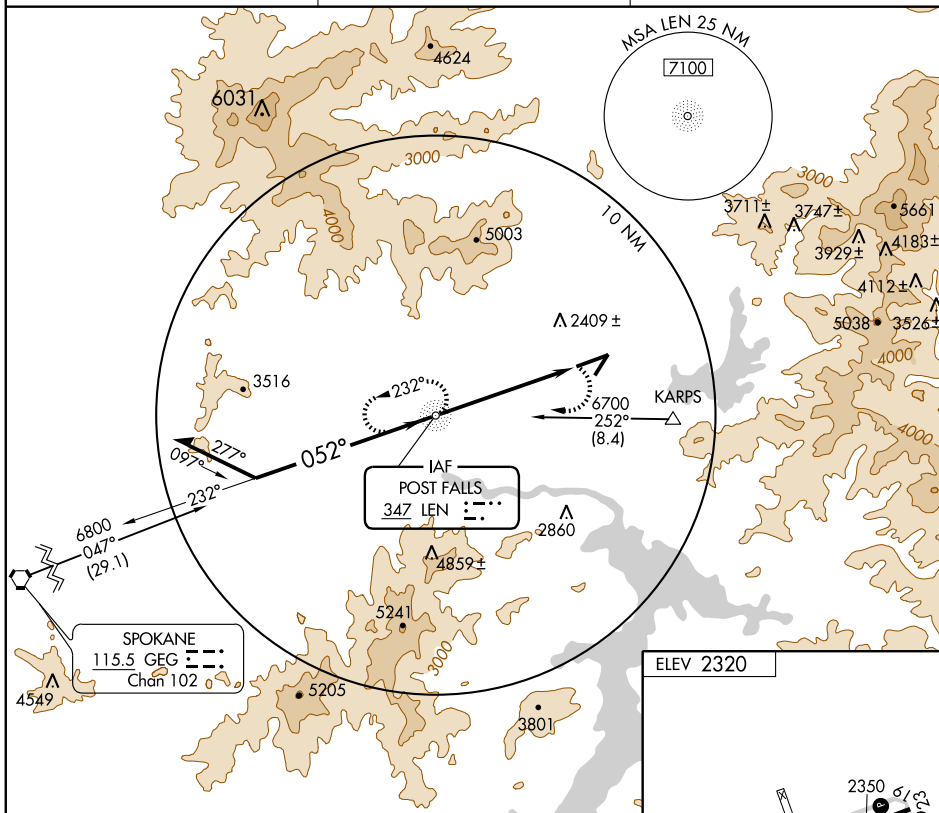
MALSR

MISSED APPROACH: Climbing right turn to 6400 direct
 LEN NDB and via LEN NDB bearing 232° outbound
 then left turn direct LEN NDB and hold.

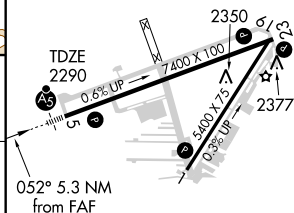
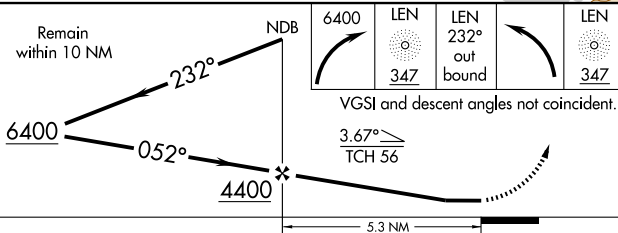
AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF) 0



ELEV 2320



MRL Rwy 1-19
 HIRL Rwy 5-23
 REIL Rws 1 and 23

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

VOR/DME COE <u>108.8</u> Chan 25	APP CRS 344°	Rwy Idg 5400 TDZE 2311 Apt Elev 2320
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VOR/DME RWY 1

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

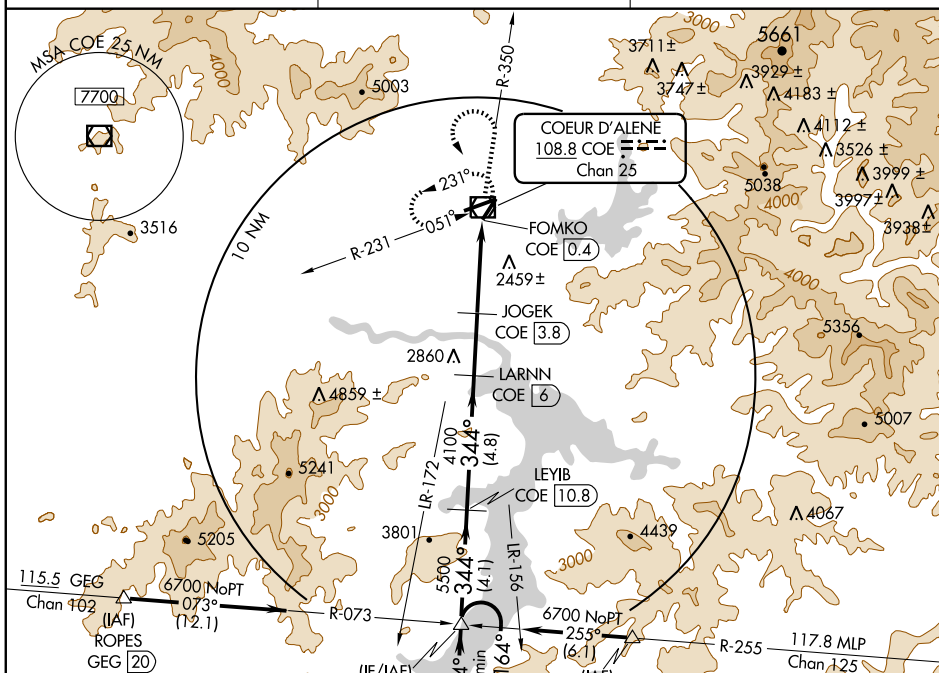
T Visibility reduction by helicopters NA. When local altimeter setting
A not received, use Spokane Inlt altimeter setting and increase all
MDA 80 feet and S-1 and circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF)



NW-1. 22 OCT 2009 to 19 NOV 2009

*3480 when using Spokane Intl altimeter setting.

One Minute Holding Pattern

HIPRR
OE 14.9

LEYIB
COE 10

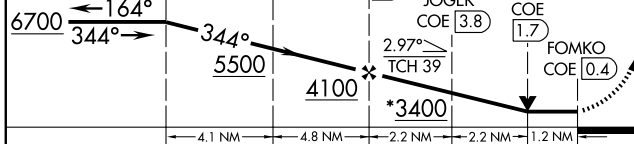
LARN

6000
↑
COE R-3
outbound

6500
COE
R-350
inbound

COE

108.8

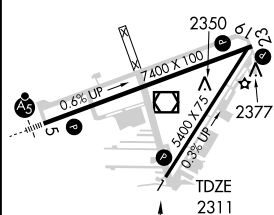


CATEGORY	A	B	C	D
S-1	2740-1	429 (500-1)	2740-1¼ 429 (500-1¼)	NA
CIRCLING	2740-1 420 (500-1)	2860-1 540 (600-1)	2880-1½ 560 (600-1½)	NA

ELEV 2320

MIRL Rwy 1-19 **L**HIRL Rwy 5-23 **L**

REIL Rwy 1 and 23 L



344° 5.6 NM →
from FAF

VOR/DME COE	APP CRS	Rwy Idg	7400
108.8	057°	TDZE	2290
Chan 25		Apt Elev	2320

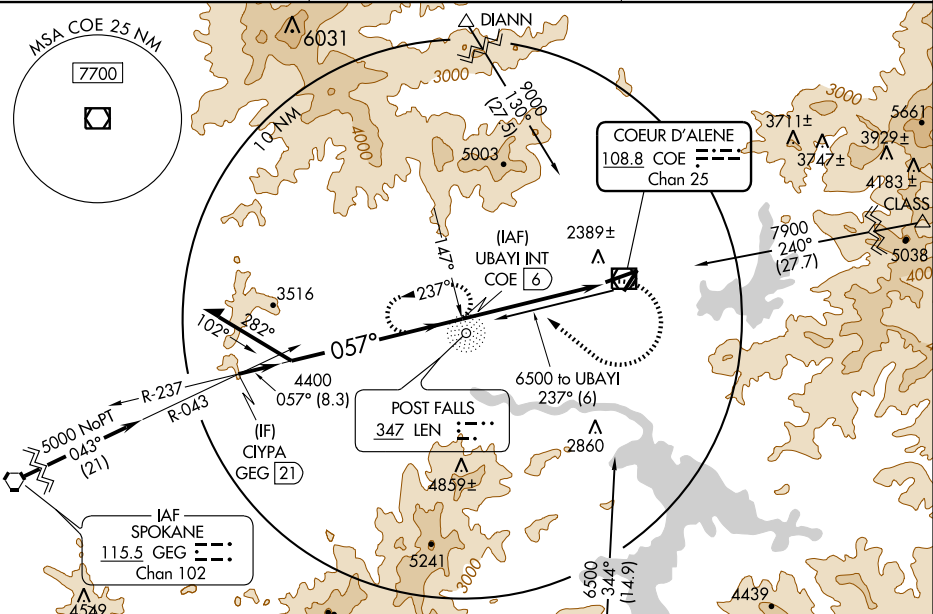
Coeur d'Alene-Pappy Boyington Field (COE)

⚠ When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDA 80 feet and circling Cat C visibility to 1 3/4 miles.
VDP NA when using Spokane Intl altimeter setting.
ADF or DME required.

MALSR

MISSED APPROACH: Climbing right turn to 6500 via heading 290° and COE R-237 outbound then right turn via COE R-237 inbound to UBAYI INT/COE 6 DME and hold.

AWOS-3 135.075	SPOKANE APP CON 132.1 263.0	UNICOM 122.8 (CTAF) 0
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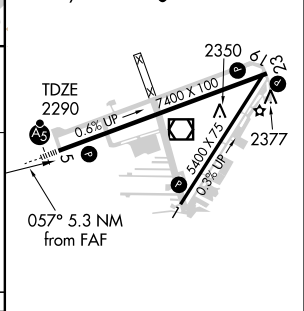
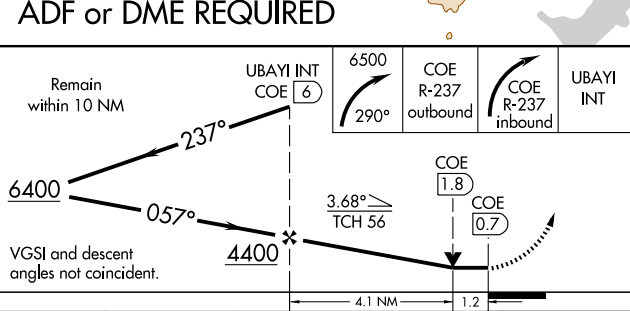
ADF or DME REQUIRED

ELEV 2320

MIRL Rwy 1-19 0

HIRL Rwy 5-23 0

REIL Rwys 1 and 23 0



CATEGORY	A	B	C	D
S-5	2700-1/2	410 (400-1/2)	2700-3/4	NA
			410 (400-3/4)	
CIRCLING	2720-1	2860-1	2880-1 1/2	NA
	400 (400-1)	540 (600-1)	560 (600-1 1/2)	

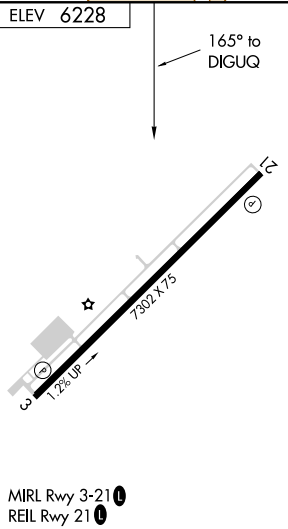
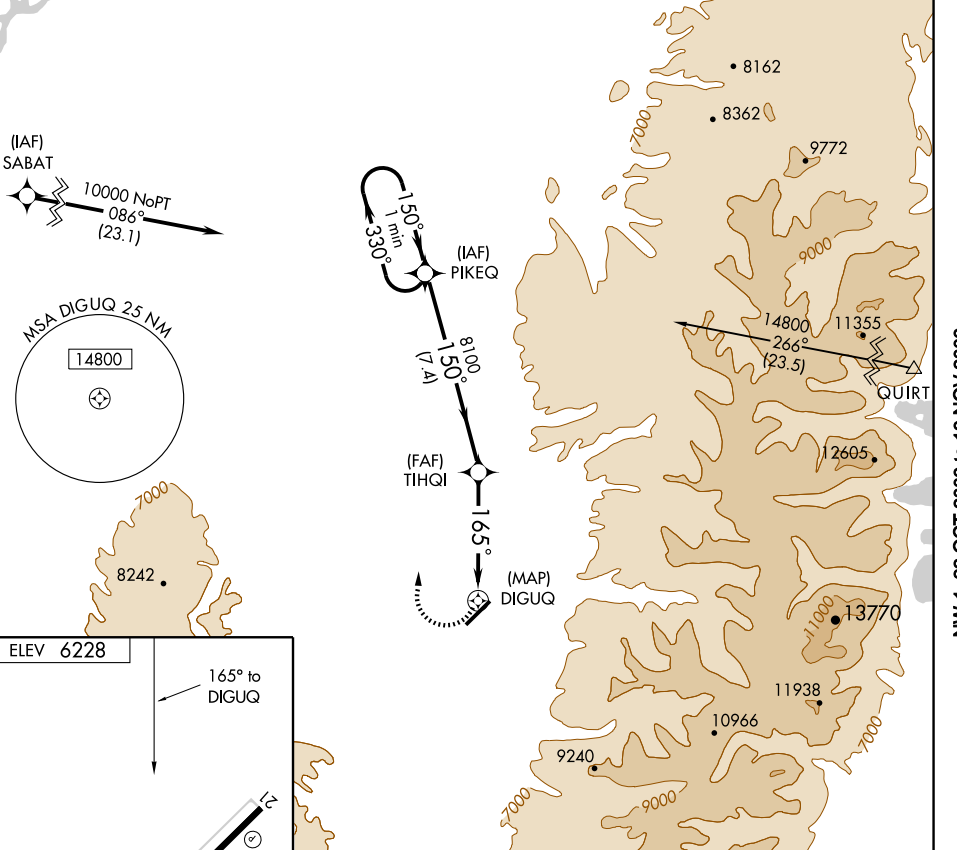
FAF to MAP 5.3 NM				
Knots	60	90	120	150
Min:Sec	5:18	3:32	2:39	2:07
				1:46

▼

▲ NA

MISSED APPROACH: Climbing right turn to 10000 direct PIKEQ and hold.

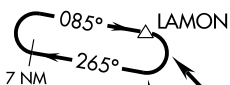
ASOS 120.775	SALT LAKE CENTER 132.4 239.25	UNICOM 122.7 (CTAF) 0
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One Minute Holding Pattern		PIKEQ		10000	PIKEQ
10000		← 330° 150° →		TIHQI	DIGUQ
		8100		150°	165°
		7.4 NM		4.6 NM	
CATEGORY	A	B	C	D	
CIRCLING	6780-1	552 (600-1)	6800-1½ 572 (600-1½)	6860-2 632 (700-2)	

NW-1. 22 OCT 2009 to 19 NOV 2009

LAMON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
132.4 239.25
UNICOM 122.7 (CTAF)TAKE-OFF MINIMUMSRwy 3: Standard with minimum climb of
250' per NM to 7400.

Rwy 21: Standard.

NOTE: GPS required.

NOTE: RNAV 1

TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees 1227' from DER, 343' left of centerline, 50' AGL/6266' MSL.

Trees 697' from DER, 327' right of centerline, 50' AGL/6246' MSL.

Trees 2106' from DER, 469' right of centerline, 50 AGL/6282' MSL.

Rwy 21: Building 1437' from DER, 730' left of centerline, 70' AGL/6189' MSL.

Building 52' from DER, 473' right of centerline, 50 AGL/6191' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb heading 033° to 6700, then climbing left turn
direct LAMON. Thence....TAKE-OFF RUNWAY 21: Climb heading 213° to 6600, then climbing right turn
direct LAMON. Thence........cross LAMON at or above MEA for direction of flight. If required, continue climb
in LAMON holding pattern to cross LAMON at or above MEA for direction of flight.

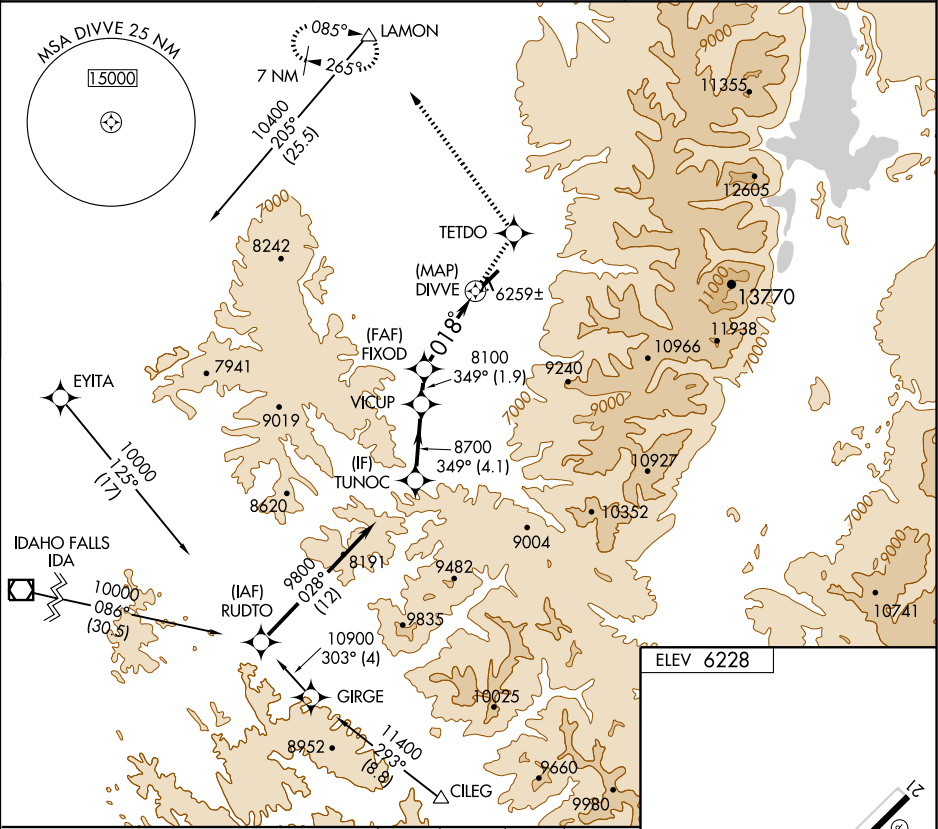
APP CRS	Rwy Idg	7302
018°	TDZE	6180
	Apt Elev	6228

RNAV (GPS) RWY 3

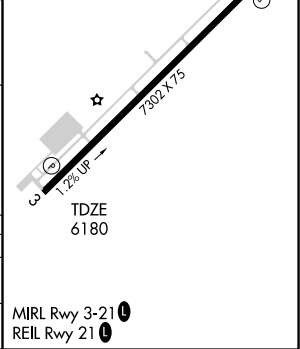
DRIGGS-REED MEMORIAL (DIJ)

NA	DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 9000 direct TETDO and via 309° track to LAMON and hold.
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ASOS 120.775	SALT LAKE CENTER 132.4 239.25	UNICOM 122.7 (CTAF) 0
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TUNOC	VICUP	FIXOD	9000	TETDO	309° Track	LAMON
9800	8700	8100	0.6 NM to DIVVE	DIVVE		
Procedure Turn NA	349°	3.29° TCH 45	0.6 NM	0.5 NM		
VGSI and descent angles not coincident.	4.1 NM	1.9 NM	4.4 NM	0.6 NM		
CATEGORY	A	B	C	D		
LNAV MDA	6520-1	340 (400-1)				
CIRCLING	6760-1 532 (600-1)	6780-1 552 (600-1)	6800-1½ 572 (600-1½)	6800-2 572 (600-2)		

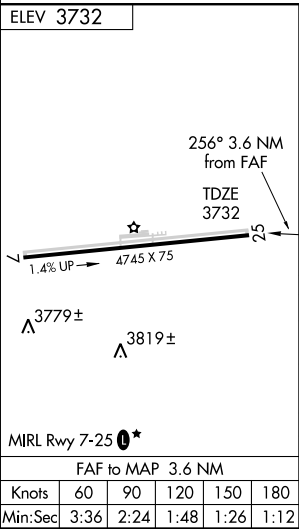
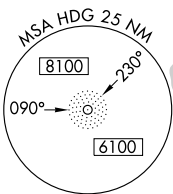
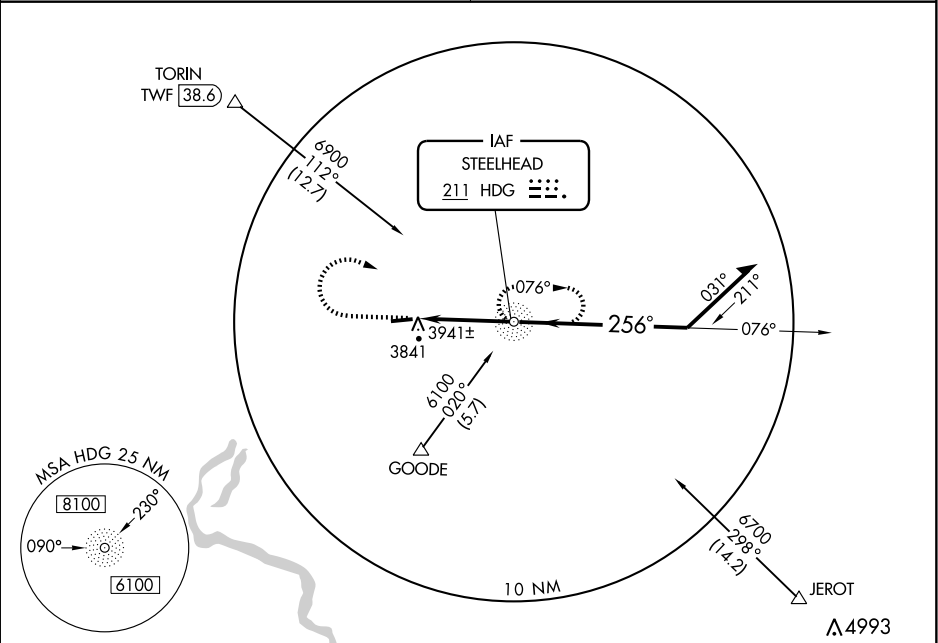


NDB HDG 211	APP CRS 256°	Rwy Idg TDZE Apt Elev	4745 3732 3732
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NDB RWY 25
GOODING MUNI (GNG)

NA Visibility reduction by helicopters NA. Obtain local altimeter setting on CTAF; when not received use Jerome County altimeter setting.	MISSED APPROACH: Climb to 4700 then climbing right turn to 5600 direct HDG NDB and hold.
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SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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4700 ↑		5600 ↗		HDG 211 ○		NDB		Remain within 10 NM	
3.6 NM									
CATEGORY		A		B		C		D	
S-25		4260-1 528 (600-1)				4260-1½ 528 (600-1½)		4260-1¾ 528 (600-1¾)	
CIRCLING		4260-1 528 (600-1)				4260-1½ 528 (600-1½)		4300-2 568 (600-2)	
JEROME COUNTY ALTIMETER SETTING MINIMUMS									
S-25		4340-1 608 (700-1)				4340-1¾ 608 (700-1¾)		4340-2 608 (700-2)	
CIRCLING		4340-1 608 (700-1)				4340-1¾ 608 (700-1¾)		4340-2 608 (700-2)	

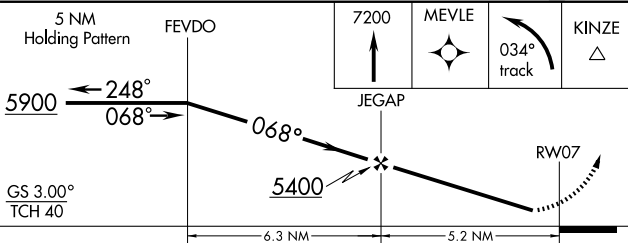
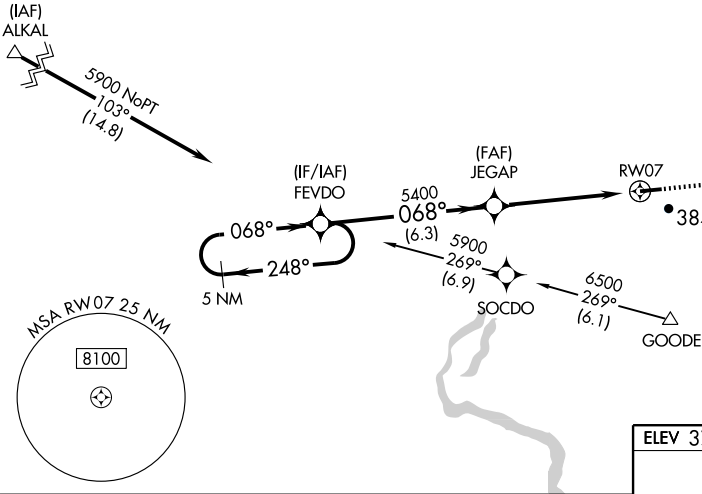
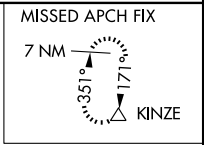
WAAS CH 53709 W07A	APP CRS 068°	Rwy ldg TDZE Apt Elev	4745 3710 3732
--	------------------------	-----------------------------	---

T DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
A Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV visibility Cat C and D ¼ mile, and circling visibility Cat C ¼ mile.

MISSED APPROACH: Climb to 7200 direct MEVLE and left turn via 034° track to KINZE and hold.

SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
---	----------------------------------

Procedure NA for arrivals at GOODE via V4 eastbound and V293 southeast bound.
Procedure NA for arrivals at ALKAL via V253 northwest bound.
Procedure NA for arrivals at ALKAL via V330 southwest bound.



ELEV 3732

MIRL Rwy 7-25 0*

CATEGORY	A	B	C	D
LPV DA	3960-1 250 (300-1)			
LNAV/VNAV DA	4049-1¼ 339 (400-1¼)			
LNAV MDA	4120-1 410 (400-1)		4120-1¼ 410 (400-1¼)	
CIRCLING	4260-1 528 (600-1)		4260-1½ 4300-2 528 (600-1½) 568 (600-2)	

NW-1, 22 OCT 2009 to 19 NOV 2009

T

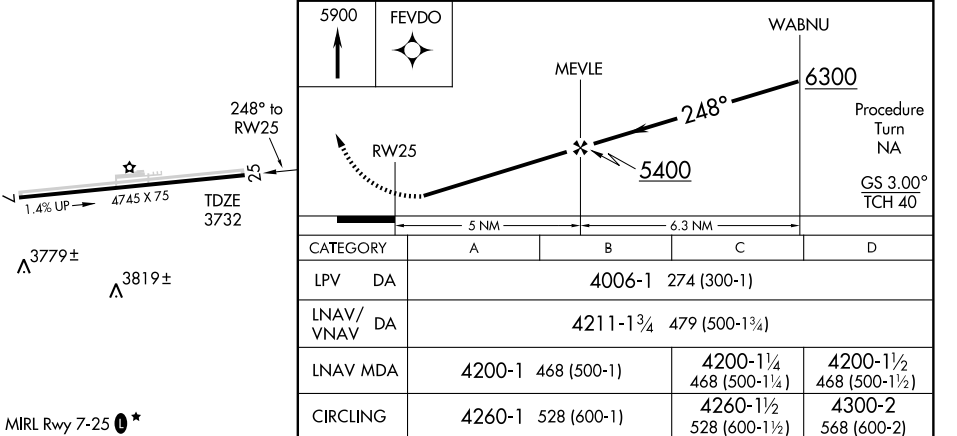
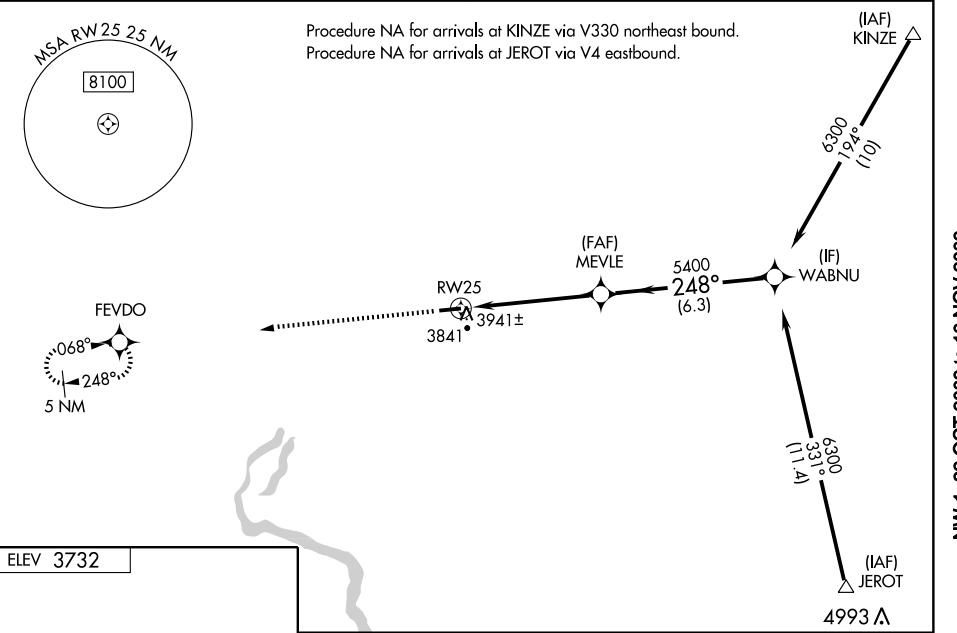
A

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ¼ mile all Cats, LNAV visibility Cat C and D ½ mile, and circling visibility Cat C ½ mile.

MISSED APPROACH: Climb to 5900 direct FEVDO and hold.

SALT LAKE CENTER
118.05 363.0

UNICOM
122.8 (CTAF) 0*

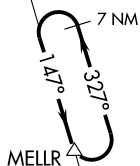


NW-1. 22 OCT 2009 to 19 NOV 2009

(MELLR).MELLR) 08157 SL-9060 (FAA)
MELLR ONE DEPARTURE (RNAV) (OBSTACLE)

GRANGEVILLE/IDAHO COUNTY (S80)
GRANGEVILLE, IDAHO

SEATTLE CENTER
123.95 282.3



TAKE-OFF OBSTACLE NOTES

Rwy 25: Equipment 61' from DER, 161' right of centerline, 7' AGL/3291' MSL.
Vehicles on road beginning 251' from DER, 134' right of centerline, up to 15' AGL/3292' MSL.

TAKE-OFF MINIMUMS

Rwy 7: NA - Obstacles.
Rwy 25: Standard.

294°
(18)

RIDIH

254°
(10)

FIDIT

(4)

NOTE: GPS Required.

NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb direct FIDIT then via depicted route to MELLR.

Maintain 7400 or assigned altitude. Aircraft southeast bound on V253 continue climb in MELLR holding pattern to MEA before proceeding enroute.

NW-1, 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	5001
073°	TDZE	3302
	Apt Elev	3314

RNAV (GPS) RWY 7

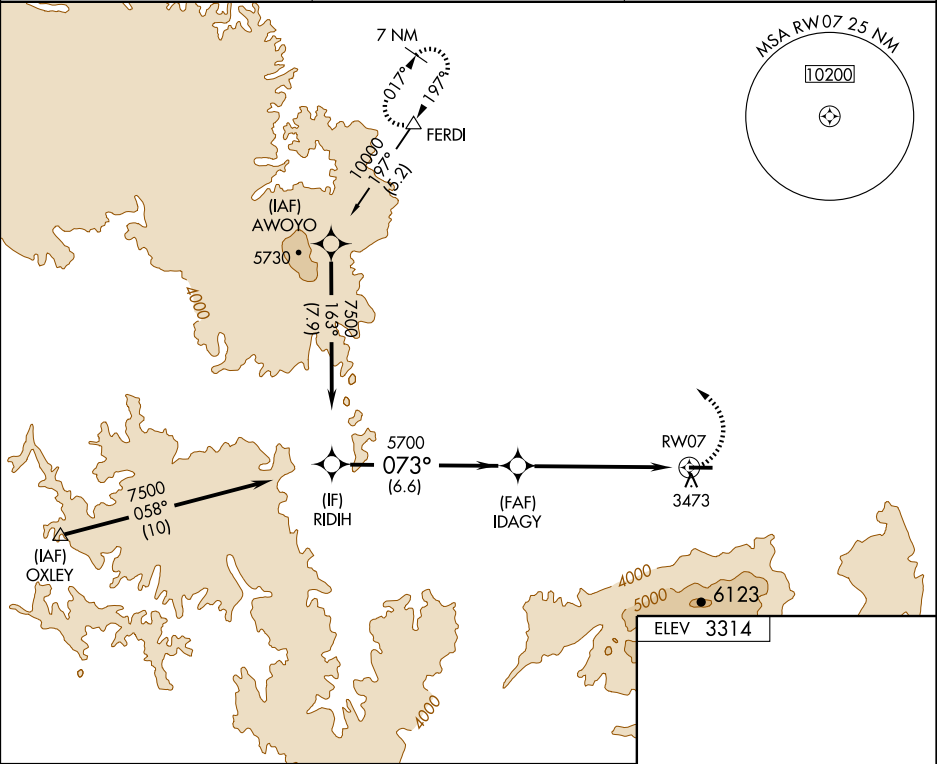
GRANGEVILLE/ IDAHO COUNTY (S80)

NA

Circling NA south of Rwy 7-25.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
Use Lewiston-Nez Perce County altimeter setting; when not received, use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to 7200 direct FERDI and hold.

LEWISTON-NEZ PERCE COUNTY ASOS 135.575	SEATTLE CENTER 123.95 282.3	CTAF 122.9 0
--	---------------------------------------	------------------------



	RIDIH	IDAGY	
	7500	5700	RW07
Procedure Turn NA	073°	3.65° TCH 45	
	6.6 NM	6.1 NM	

CATEGORY	A	B	C	D
LNAV MDA	4660-1¼ 1358 (1400-1¼)	4660-1½ 1358 (1400-1½)	4660-3 1358 (1400-3)	NA
CIRCLING	4660-1¼ 1346 (1400-1¼)	4660-1½ 1346 (1400-1½)	4660-3 1346 (1400-3)	NA

5101 X 75

0.5% UP

TDZE 3302

073° to RW07

MIRL Rwy 7-25

REIL Rwy 7 0

APP CRS	Rwy Idg	5101
239°	TDZE	3314
	Apt Elev	3314

RNAV (GPS) RWY 25

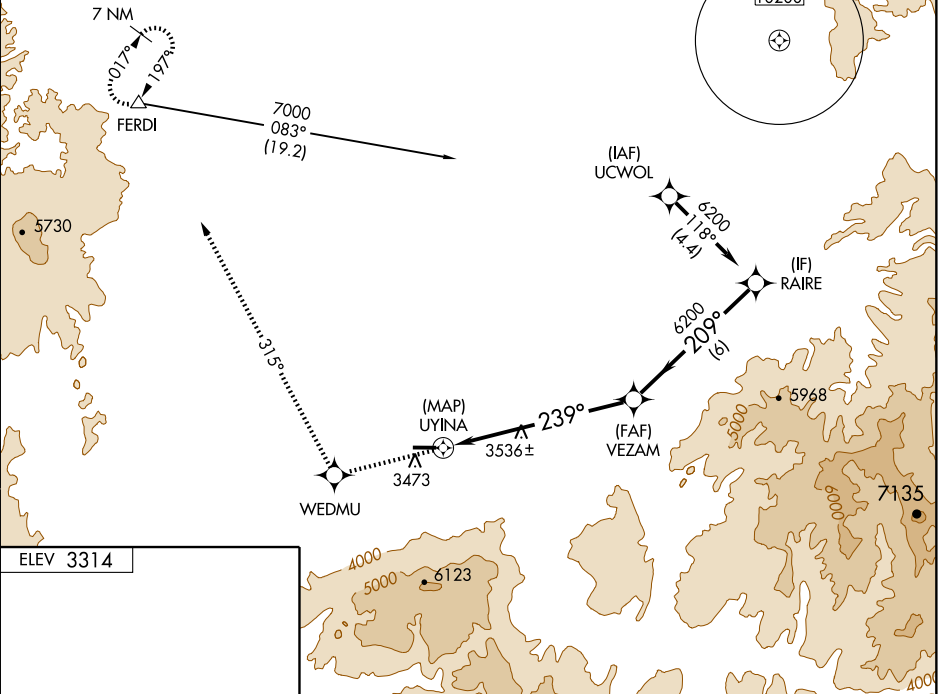
GRANGEVILLE/IDAHO COUNTY (S80)

NA Circling NA south of Rwy 7-25.
DME/DME RNP-0.3 NA.
Use Lewiston-Nez Perce County altimeter setting; when not received, use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climb to 7200 direct WEDMU and via 315° track to FERDI and hold, continue climb-in-hold to 7200.

LEWISTON-NEZ PERCE COUNTY ASOS 135.575	SEATTLE CENTER 123.95 282.3	CTAF 122.9 0
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Procedure NA for arrivals at FERDI via V520 northwest bound.



ELEV 3314

TDZE 3314

5101 X 75

0 0.5% UP

MIRL Rwy 7-25

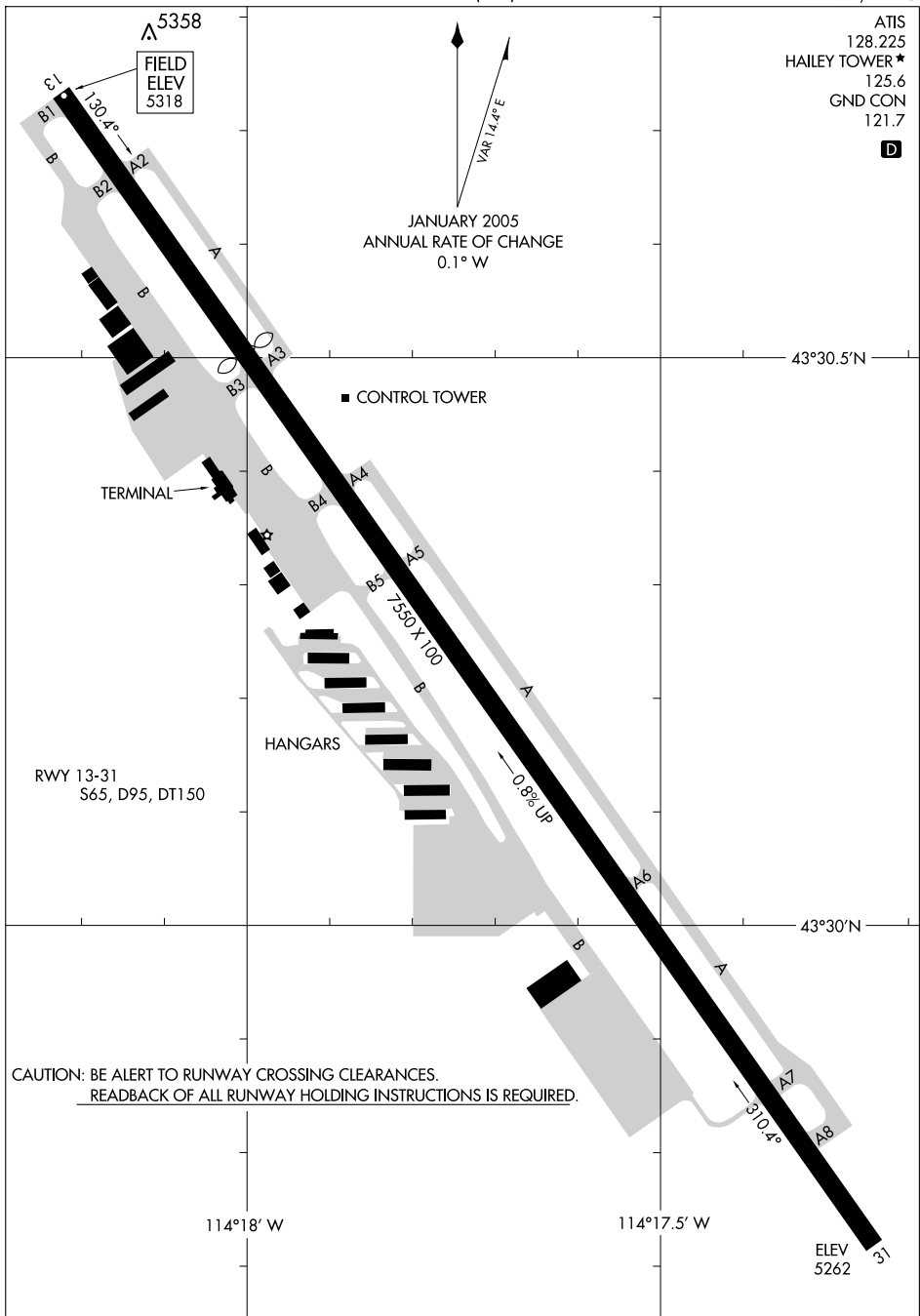
REIL Rwy 7 0

7200	WEDMU	315° track	FERDI	VEZAM	RAIRE
↑	✧		△		
				6200	6200
	UYINA	239°	≤3.69° TCH 50	209°	Procedure Turn NA
	0.2	7 NM	6 NM		
CATEGORY	A	B	C	D	
LNAV MDA	4720-1¼ 1406 (1500-1¼)	4720-1½ 1406 (1500-1½)	4720-3 1406 (1500-3)	NA	
CIRCLING	4720-1¼ 1406 (1500-1¼)	4720-1½ 1406 (1500-1½)	4720-3 1406 (1500-3)	NA	

AIRPORT DIAGRAM



HAILEY / FRIEDMAN MEMORIAL (SUN)

HAILEY, IDAHO



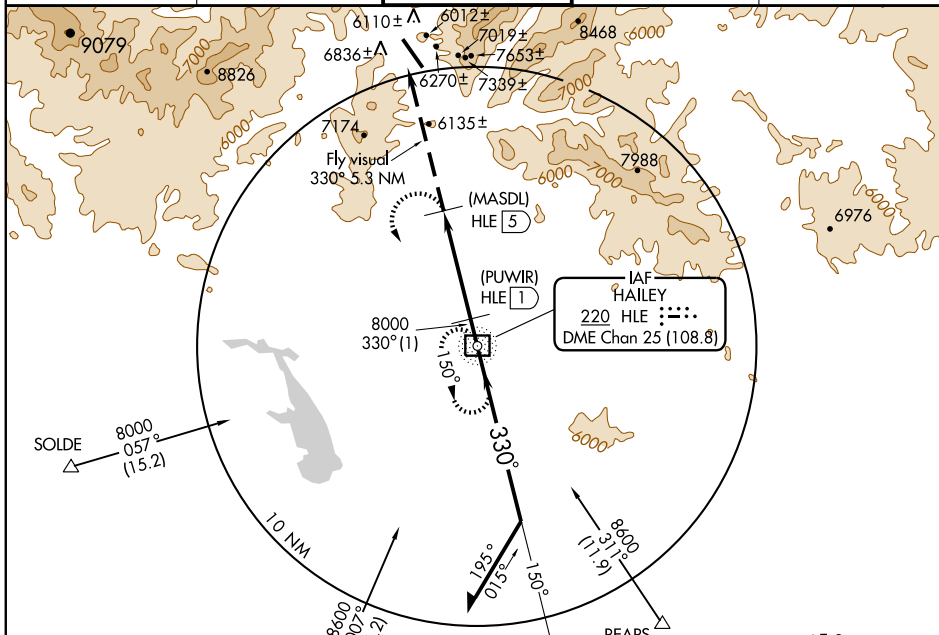
NDB/DME HLE <u>220</u> DME Chan 25	APP CRS 330°	Rwy Idg TDZE Apt Elev 5313	N/A N/A
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NDB/DME or GPS-A
HAILEY/FRIEDMAN MEMORIAL (SUN)

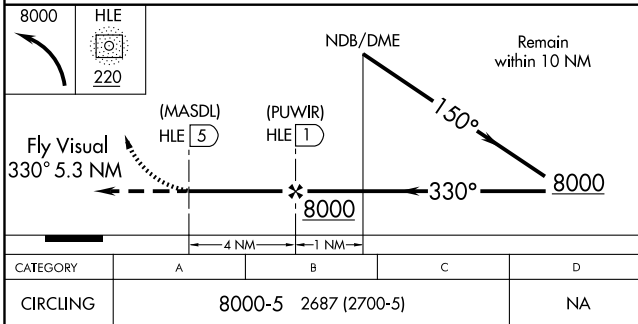
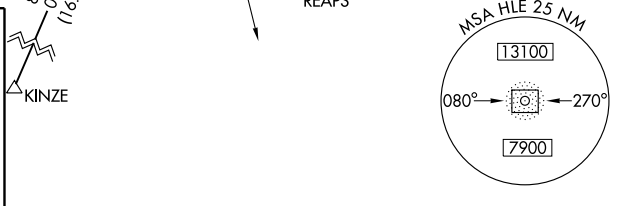
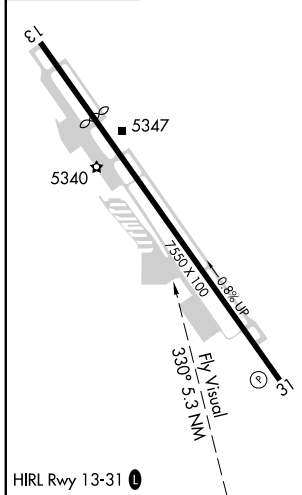
	Occasional ADF needle swings away from the final approach course are to be expected north of missed approach point.
 NA	When control tower closed, procedure not authorized. Procedure not authorized at night.

MISSED APPROACH: Left turn to 8000 direct HLE NDB/DME and hold.

ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER ★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 5313	D
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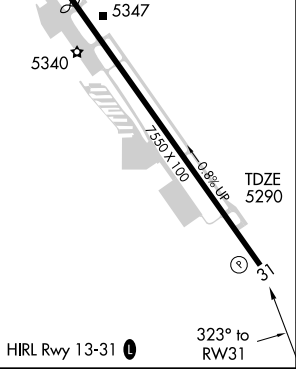
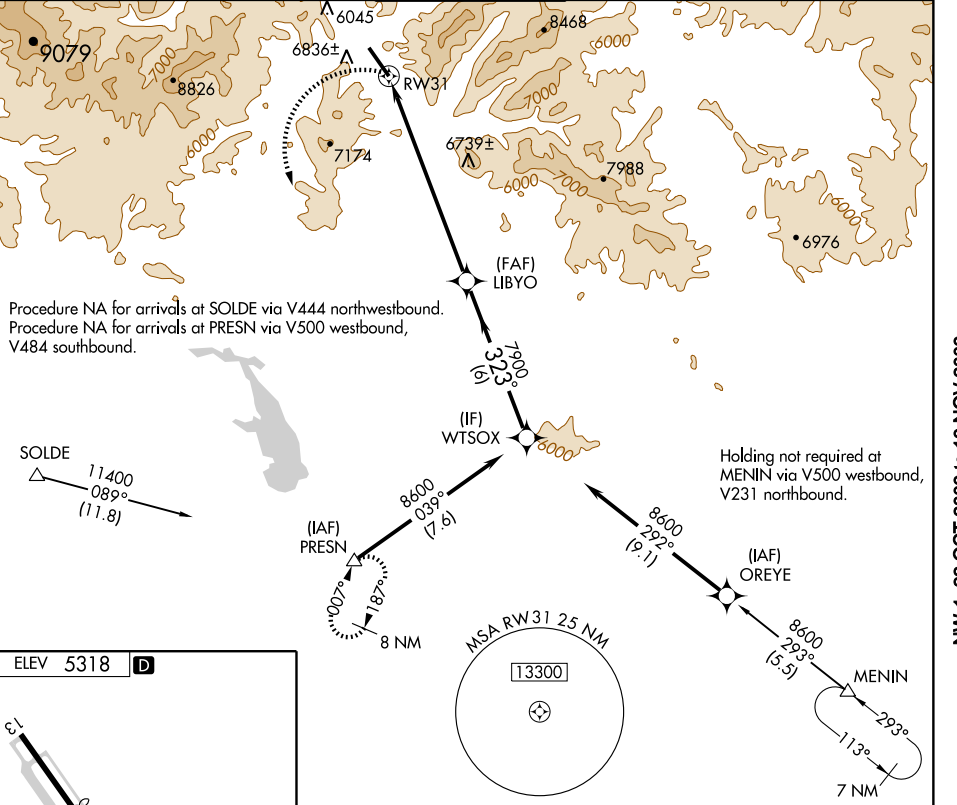
▼

▲

Circling NA at night.
Circling NA east of Rwy 13-31.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn
to 8700 direct PRESN and hold.



ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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8700	PRESN	VGSI and descent angles not coincident.		WTSOX
RW31	LIBYO	7900	323°	8600
7.8 NM		6 NM		
CATEGORY	A	B	C	D
LNAV MDA	7080-1¼ 1790 (1800-1¼)	7080-1½ 1790 (1800-1½)	7080-3 1790 (1800-3)	NA
CIRCLING	7180-1¼ 1862 (1900-1¼)	7180-1½ 1862 (1900-1½)	7180-3 1862 (1900-3)	NA

APP CRS 314°	Rwy Idg TDZE Apt Elev	6631 5290 5318
------------------------	-----------------------------	---

RNAV (RNP) Y RWY 31
HAILEY/FRIEDMAN MEMORIAL (SUN)

  NA	GPS required. When VGSI inoperative, procedure NA at night. For uncompensated Baro-VNAV systems, procedure NA below -25°C (-14°F) or above 37°C (99°F). Missed approach requires RNP less than 1.0 and minimum climb of 330 feet per NM to 14500. Visibility reduction by helicopters NA. Final approach course offset 5.00°.
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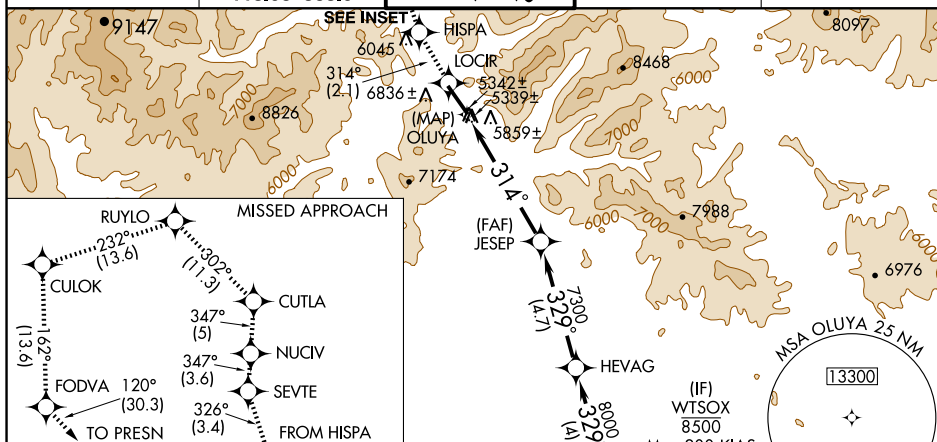
MISSED APPROACH: Climb to 15000 via 314° track to LOCIR, 314° track to HISPA, 326° track to SEVTE, 347° track to NUCIV, 347° track to CUTLA, 302° track to RUYLO, 232° track to CULOK, 162° track to FODVA, 120° track to PRESN and hold.

ATIS
128.225

SALT LAKE CENTER
118 05 353 0

HAILEY TOWER ★
125.6 (CTAF) ①

GND CON
121.7

UNICOM
122.95

(IAF)
SOLDE
17200 \triangle 11400
SOLDE: 089°
Procedure NA (11.8)
V101 SW Bnd;
V444 NW Bnd

ELEV 5318 D

51

5347

5340

7530 X 100

0.8% UP

TDZE
5290

314° to OLVERA

(IAF) PRESN
11700
11400
Max 230 KIAS

089°
8 NM

8000
039°
(7.6)

PRESN:
Procedure NA
V500 W Bnd;
V484 S Bnd

8000
317°
(2.9)

REAPS:
Procedure NA
V500 E Bnd;
V101 SE Bnd











(IAF) REAPS
10500

8000
293°
(1.4.6)

MENIN:
Procedure NA
V500 E Bnd;
V231 S Bnd

(IAF) MENIN
12500

Max 200 KIAS

15000	LOCIR	HISPA	SEVTE	NUCIV	CUTLA	RUYLO	CULOK	FODVA	PRESN
									
	314° track	314° track	326° track	347° track	347° track	302° track	232° track	162° track	120° track

Altitude	Procedure
8500	Turn NA
8000	

GP 3.50°
TCH 58

CATEGORY	A	B	C	D
RNP 0.30 DA	6264-3	974 (1000-3)		NA

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

NW-1-22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

AL-590 (FAA)

IDAHO FALLS RGNL (IDA)
IDAHO FALLS, IDAHO

ATIS
135.325
IDAHO FALLS TOWER ★
118.5 257.8
GND CON
121.7

VAR 13.6°E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

43°31'N

FIELD
ELEV
4744

9002 X 150

RWY 2-20
S140, D175, ST175, DT270
RWY 17-35
S43, D58

PASSENGER
TERMINAL

TWR
4833

FIRE
STATION

ELEV
4731

ELEV
4731

ELEV
4731

HOT³

HOT²

HOT¹

4051 X 75

35

348.3°

B

168.3°

A

201.4°

A-1

A-2

A-3

A-4

A-5

2

024.4°

ELEV
4742

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

43°30'N

112°05'W

112°04'W

NW-1. 22 OCT 2009 to 19 NOV 2009

LOC/DME HDA	APP CRS	Rwy Idg	9002
111.1	203°	TDZE	4735
Chan 48		Apt Elev	4744

Visibility CAT A/B/C/D, RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS R

AS

MISSED APPROACH: Climb to 7000, then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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7000	IDA 113.85	LOM I-HDA 7.5	Remain within 15 NM		
			6670	023°	6700
			6670	203°	6700
CATEGORY	A	B	C	D	E
S-ILS 20	*4935/24 200 (200-½)				
S-LOC 20	5140/24	405 (400-½)	5140/40	405 (400-¾)	5140/50 405 (400-1)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)	5420-2½ 676 (700-2½)

NW-1, 22 OCT 2009 to 19 NOV 2009

LOC/DME I-IDA <u>111.1</u> Chan 48	APP CRS 023°	Rwy Idg 9002 TDZE 4744 Apt Elev 4744
--	------------------------	---

LOC BC RWY 2
IDAHO FALLS RGNL (IDA)



MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

ATIS
135.325

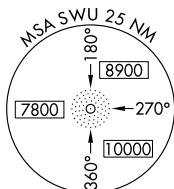
SALT LAKE CENTER
128.35 239.25

IDAHO FALLS TOWER★
118.5 (CTAF) 257.8

GND CON
121.7

UNICOM
122.95


ADF or DME REQUIRED



LOCALIZER 111
I-DA 111
Chan 48

IDAHO FALLS
113.85 IDA $\frac{\ddot{\cdot}\cdot}{\underline{\cdot}\cdot}$
Chan 85 (Y)

 $\Lambda_{5812} \pm$

ROCCA  7300
067°
(13.2)

BACK COURSE

6500 NoPT to NDB
014° (31.1) and
LOC (8.9).

SWEDEN
50 SWU ::-
I-IDA 5.2)

IAF
POCATELLO
112.6 PIH
Chn 73

ELEV 4744

Remain
within 15 NM

I-IDA 5.2

6000

7000

IDA
113 85

6500 ————— 023° ————— 6500

I-IDA
0.5

Disregard Glide Slope indications

$$\frac{2.99}{TCH 50}$$

...

.....

7 [REDACTED]

023° 5.4 NM
from FAF

REIL Rwy 2 **L**
RL Rwy 2-20 **L**

5000

	5080
--	------

1 1/4

FAF to MAP 4.7 NM

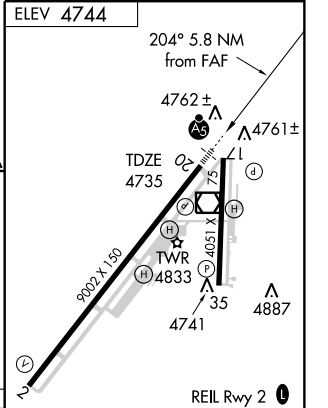
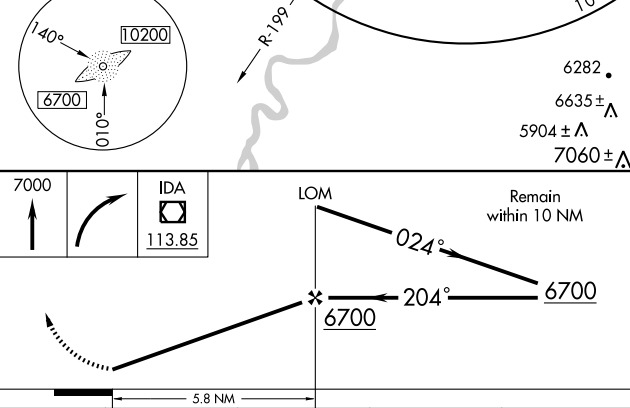
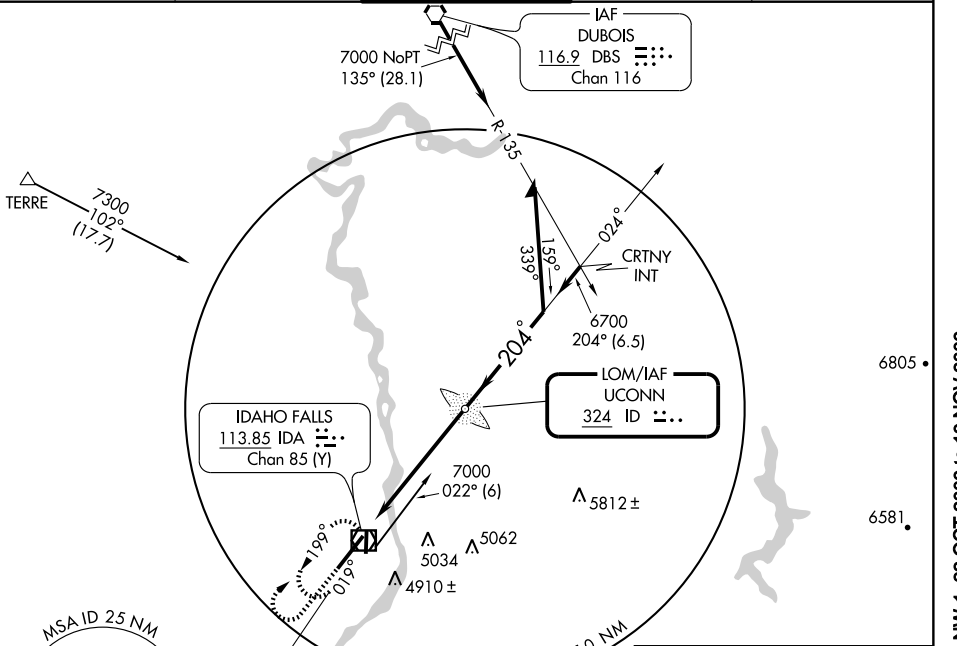
Knots	60	90	120	150	180
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Min:Sec	4:42	3:08	2:21	1:53	1:30
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MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 257.8	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
S-20	5220/40 485 (500-¾)			5220/60 485 (500-1¼)	Min:Sec	5:48	3:52	2:54	2:19	1:56
CIRCLING	5220-1 476 (500-1)			5260-1½ 516 (600-1½)						
				5340-2 596 (600-2)						

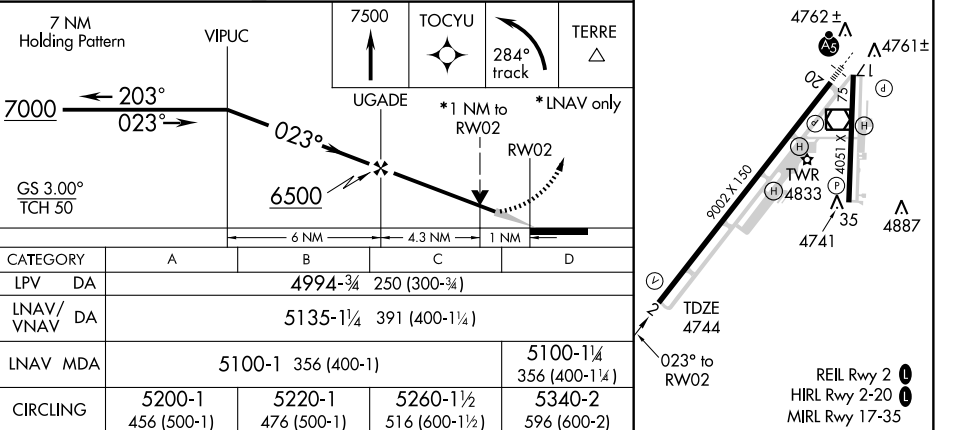
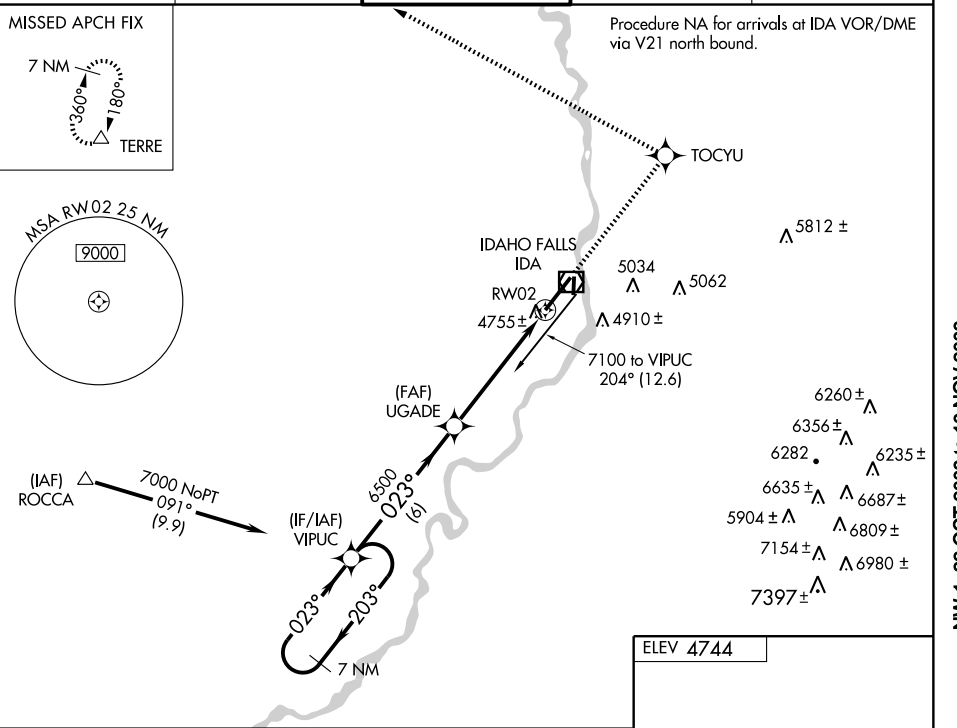
NW-1. 22 OCT 2009 to 19 NOV 2009

▼

DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (103°F).
When VGSI inoperative, circling Rwy 35 NA at night.

MISSED APPROACH: Climb to 7500 direct TOCYU and left turn via 284° track to TERRE and hold.

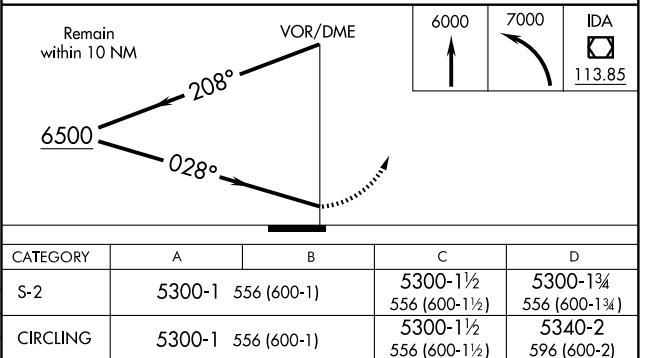
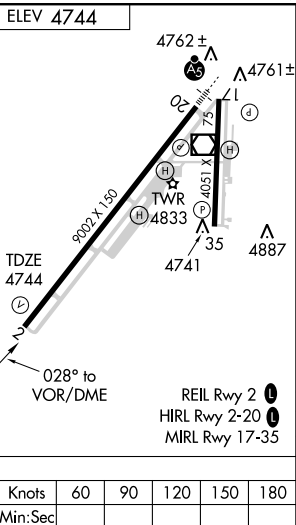
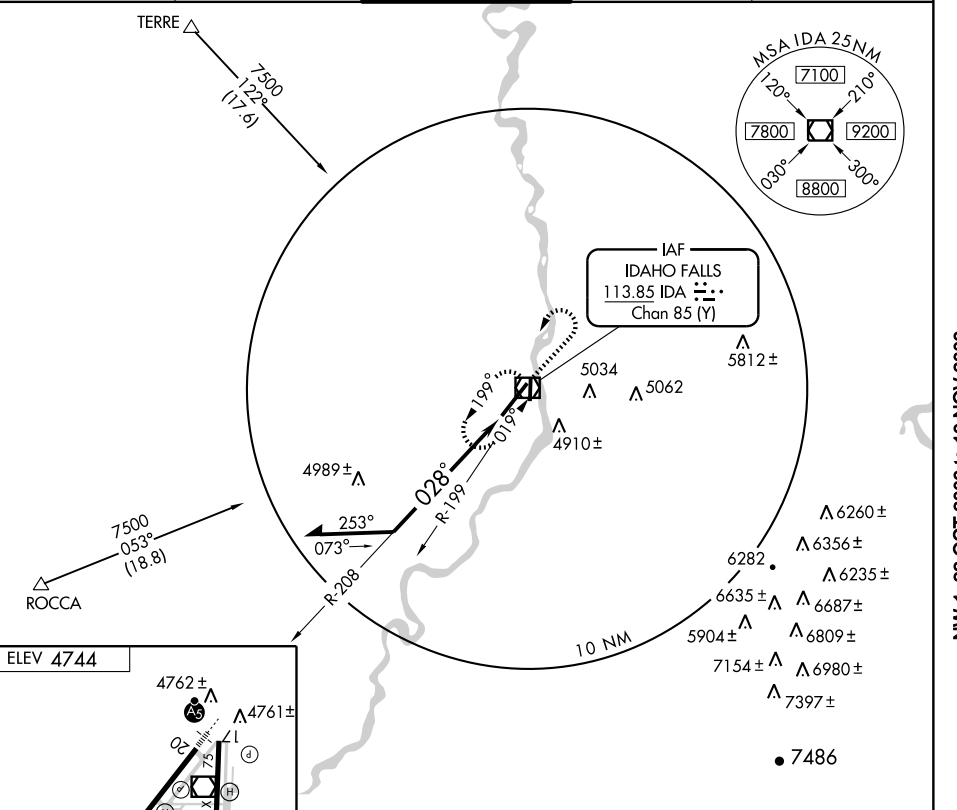
ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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NW-1. 22 OCT 2009 to 19 NOV 2009

MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER ★ 118.5 (CTAF) 0 257.8	GND CON 121.7	UNICOM 122.95
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NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME IDA 113.85 Chan 85 (Y)	APP CRS 192°	Rwy Idg 9002 TDZE 4735 Apt Elev 4744
--	------------------------	---

VOR RWY 20
IDAHO FALLS RGNL (IDA)

▼ When local altimeter setting not received, use Rexburg-Madison County altimeter setting and increase all MDA 80 feet and increase all Cat B
▲ visibilities $\frac{1}{4}$ mile and increase all Cat C and D visibilities $\frac{1}{2}$ mile.
When VGSi inoperative, circling Rwy 35 NA at night.
VDP NA when using Rexburg-Madison County altimeter setting.

MALSR

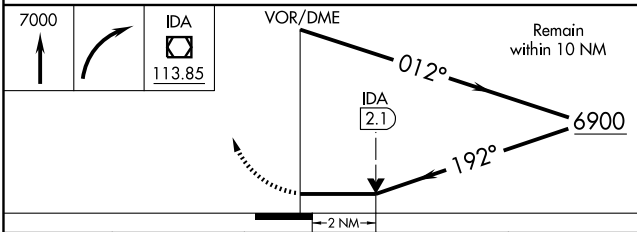
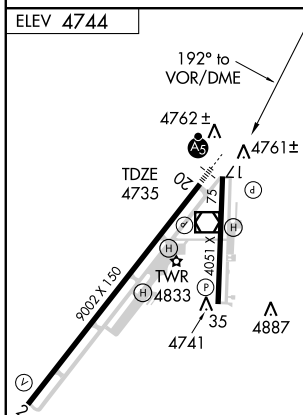
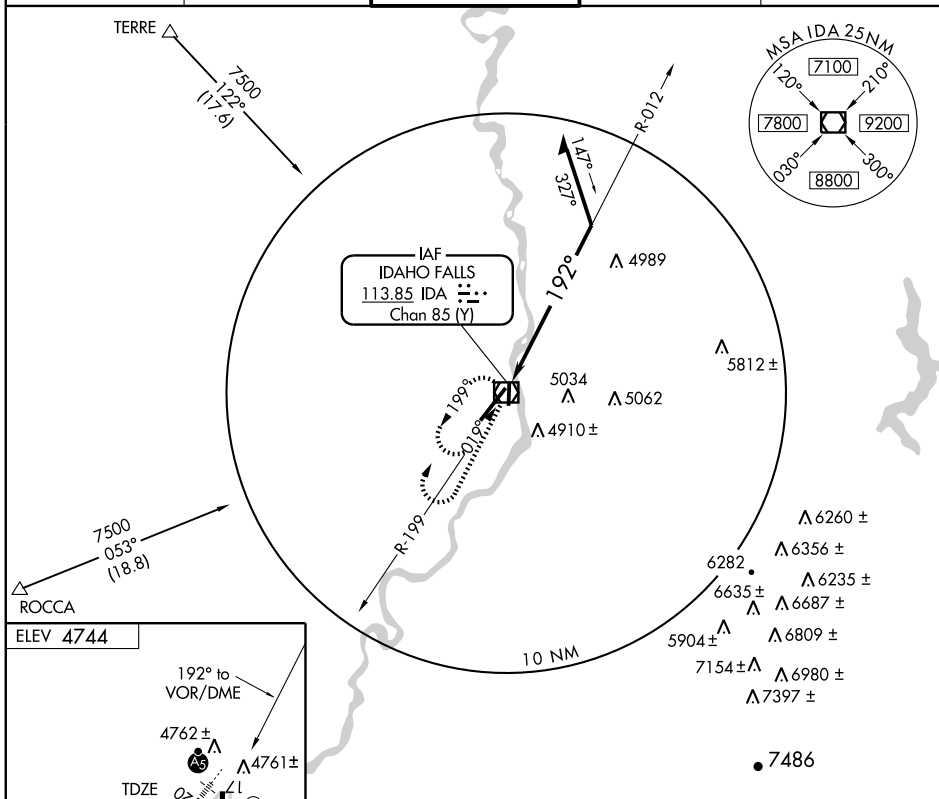
MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS
135.325

SALT LAKE CENTER
128.35 239.25

IDAHO FALLS TOWER★
118.5 (CTAF) **L** 257.8

GND CON
121.7

UNICOM
122.95

CATEGORY	A	B	C	D
S-20	5400/24	665 (700-½)	5400/60 665 (700-1¼)	5400-1½ 665 (700-1½)
CIRCLING	5400-1	656 (700-1)	5400-1¾ 656 (700-1¾)	5400-2 656 (700-2)

REIL Rwy 2 **L**
HIRL Rwy 2-20 **L**
MIRL Rwy 17-35

NW-1. 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	5001
086°	TDZE	4019
	Apt Elev	4053

RNAV (GPS) RWY 9

JEROME COUNTY (JER)

▼

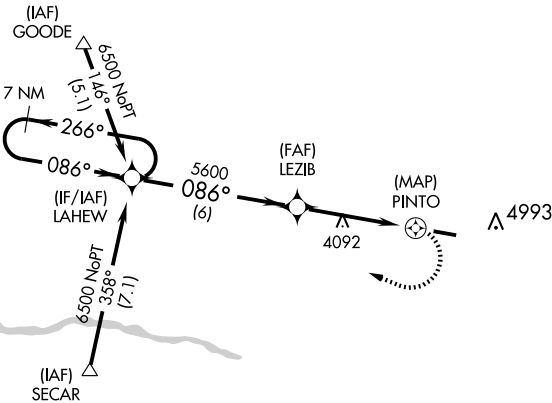
▲

Circling NA north of Rwy 9-27. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet, and increase LNAV Cat. D visibility ¼ mile.

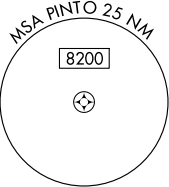
MISSED APPROACH:
Climbing right turn to 6500
direct LAHEW and hold.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrivals at GOODE
via V4 northwest bound and V293
northwest bound.

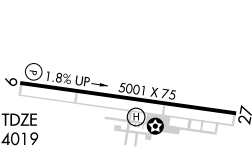


Procedure NA for arrivals at SECAR
via V253 southeast bound.



ELEV 4053

7 NM Holding Pattern LAHEW				
CATEGORY	A		B	
LNAV MDA	4420-1 401 (400-1)		4420-1¼ 401 (400-1¼)	
CIRCLING	4480-1 427 (500-1)		4560-1 507 (600-1)	
			4560-1½ 507 (600-1½)	
			4620-2 567 (700-2)	



MRL Rwy 9-27 0

WAAS CH 90514 W27A	APP CRS 266°	Rwy Idg TDZE Apt Elev	5001 4053 4053
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RNAV (GPS) RWY 27

JEROME COUNTY (JER)

⚠

⚠

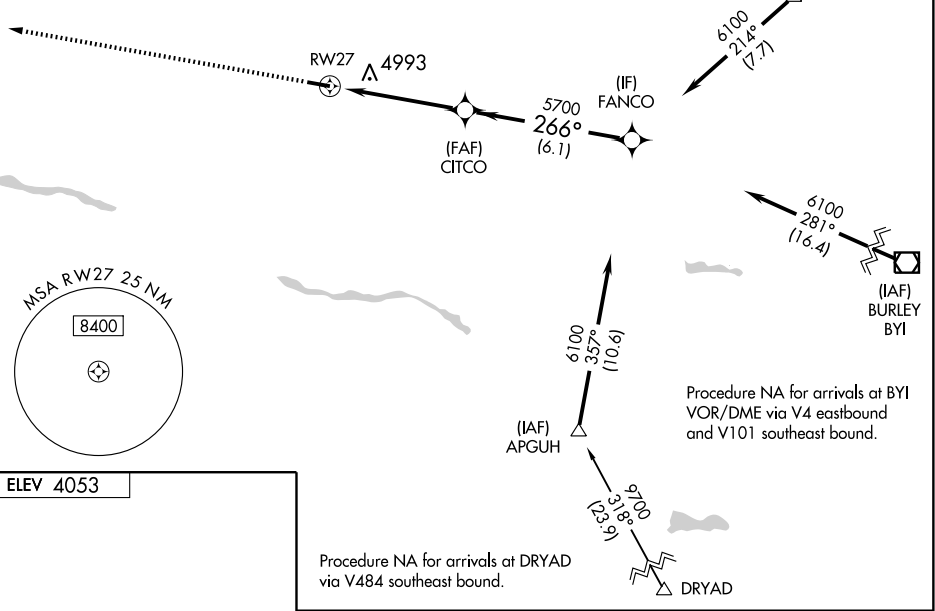
Circling NA north of Rwy 9-27. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Twin Falls altimeter setting and increase all DA 49 feet, and all MDA 60, and increase LPV all Cats. visibility ¼ mile.

MISSED APPROACH:
Climb to 6500 direct
LAHEW and hold.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 1
------------------------	---	---	--

MISSED APCH FIX
7 NM

LAHEW



ELEV 4053

MIRL Rwy 8-26 **1**

6500

LAHEW

CATEGORY	A	B	C	D
LPV DA	4434-1¼ 381 (400-1¼)			
LNAV MDA	5300-1¼ 1247 (1300-1¼)	5300-1½ 1247 (1300-1½)	5300-3	1247 (1300-3)
CIRCLING	5300-1¼ 1247 (1300-1¼)	5300-1½ 1247 (1300-1½)	5300-3	1247 (1300-3)

NW-1, 22 OCT 2009 to 19 NOV 2009

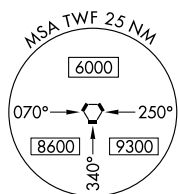
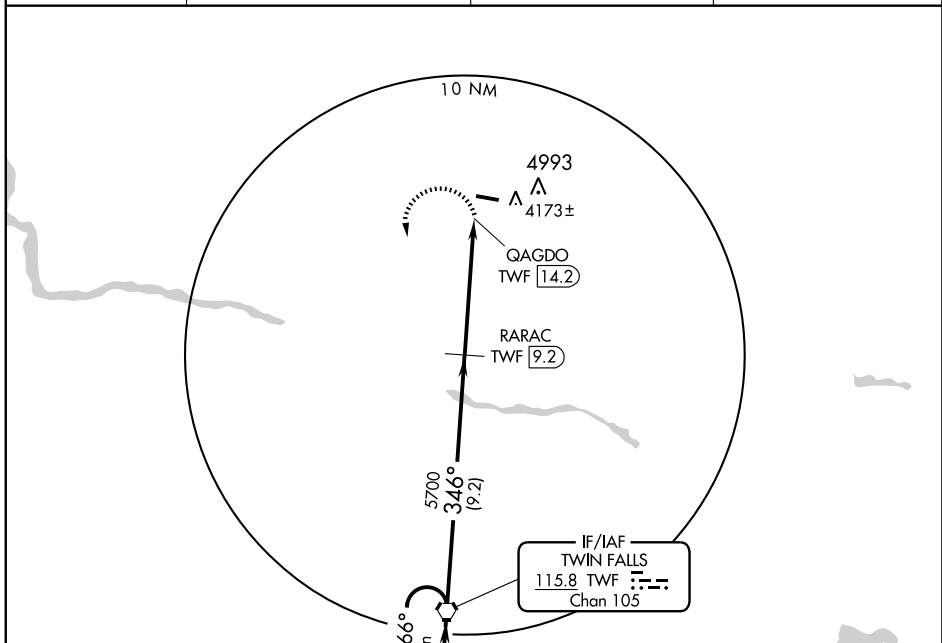
VORTAC TWF 115.8 Chan 105	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 4053
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VOR/DME-A
JEROME COUNTY (JER)

⚠ Circling NA north of Rwy 9-27. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet.

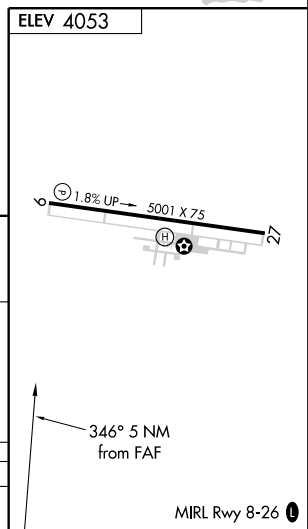
MISSED APPROACH: Climbing left turn to 8000 direct TWF VORTAC and hold, continue climb-in-hold to 8000.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) ①
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NoPT for arrival on TWF VORTAC via V142 westbound and V269 southwest bound and V293 northbound.

One Minute Holding Pattern				
VORTAC				
CATEGORY	A	B	C	D
CIRCLING	4580-1 527 (600-1)		4580-1½ 527 (600-1½)	4620-2 567 (600-2)



MIRL Rwy 8-26 **①**

AIRPORT DIAGRAM

AL-515 (FAA)

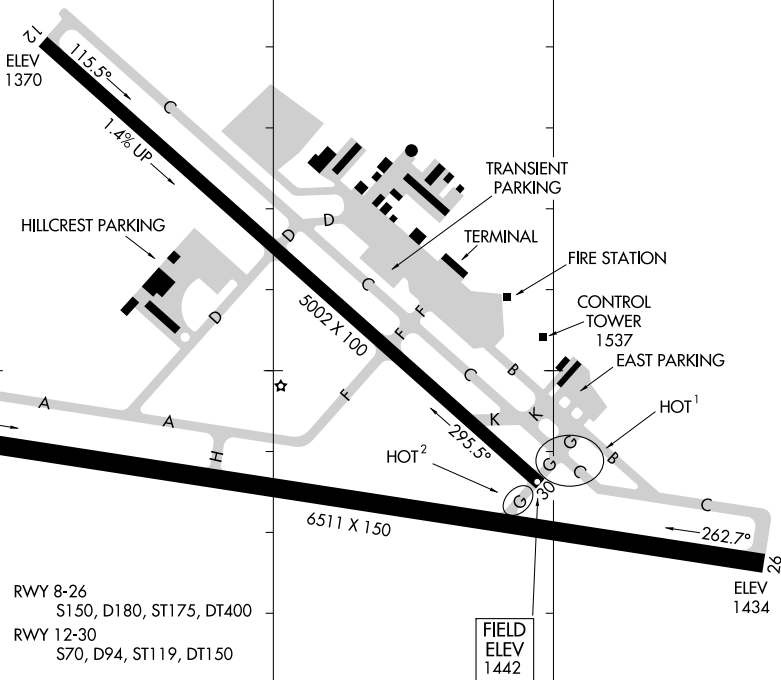
LEWISTON-NEZ PERCE COUNTY (LWS)

LEWISTON, IDAHO

ASOS
135.575
LEWISTON TOWER★
119.4 318.8
GND CON
121.9

JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W

46°23'N



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1: 22 OCT 2009 to 19 NOV 2009

LOC I-LWS <u>109.7</u>	APP CRS 264°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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ILS RWY 26

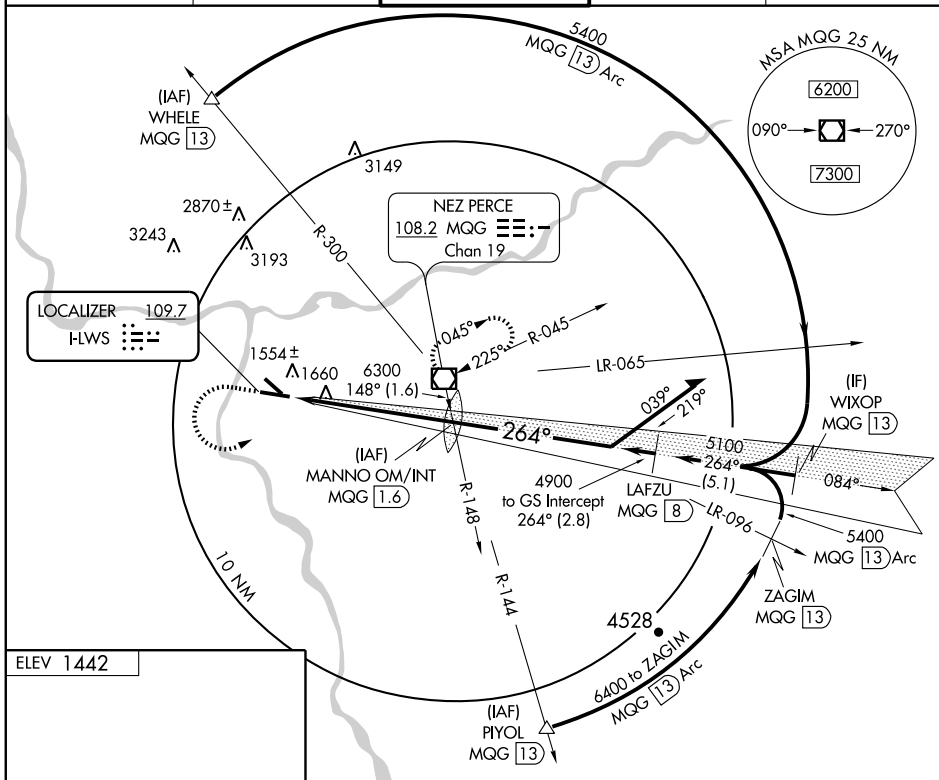
LEWISTON-NEZ PERCE COUNTY (LWS)

- T** When local altimeter setting not received, procedure NA.
A Autopilot coupled approach NA below 2500.
 Circling requires descent on GS to CMDA.

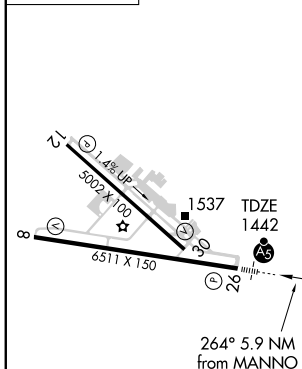
MALSR
A5

MISSED APPROACH: Climb to 3000 then climbing left turn to 5300 direct MQG VOR/DME and hold, continue climb-in-hold to 5300.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER* 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
-----------------	--------------------------------	---	------------------	------------------



ELEV 1442



3000 ↑	5300 ↖	MQG □ 108.2	MANNO OM/INT MQG 1.6		Remain within 10 NM
CATEGORY	A	B	C	D	
S-ILS 26	1642-½ 200 (200-½)				
CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)	

REIL Rwys 8 and 12 **L**

HIRL Rwy 8-26

MIRL Rwy 12-30

NW-1. 22 OCT 2009 to 19 NOV 2009

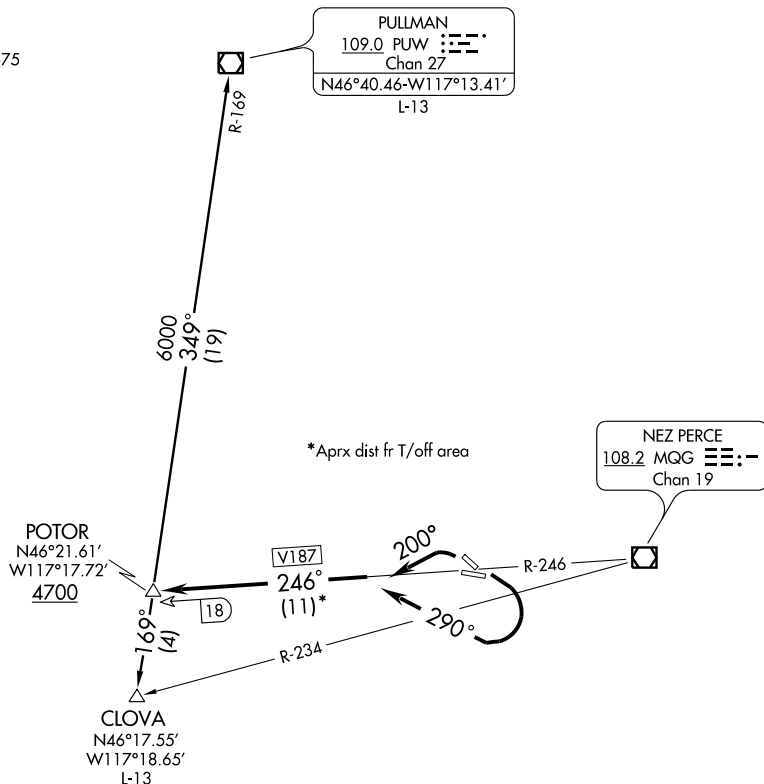
POTOR TWO DEPARTURE

SL-51.5 (FAA)

LEWISTON-NEZ PERCE COUNTY (LWS)

LEWISTON, IDAHO

GND CON
121.9
CTAF 119.4
ASOS 135.575



NOTE: Departure may be restricted to cross POTOR INT at 5000.

NOTE: Minimum climb required- Rws 26 and 29-300'/NM to 4700' (750 FPM/150K IAS 1000 FPM/200K IAS).
Rws 8 and 11-270'/NM to 4700' (675 FPM/150K IAS, 900 FPM/200K IAS) or 4600' ceiling and three miles visibility.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8, 11: Turn right heading 290°. Thence....

TAKE-OFF RUNWAYS 26, 29: Turn left heading 200°. Thence....

....Intercept and proceed via MQG R-246 (V187) to POTOR INT. Thence via (assigned route) or (transition).

CLOVA TRANSITION (POTOR2.CLOVA): From over POTOR INT via PUW R-169 to CLOVA INT.

PULLMAN TRANSITION (POTOR2.PUW): From over POTOR INT via PUW R-169 to PUW VOR/DME.

WAAS CH 97600 W08A	APP CRS 084°	Rwy Idg 6511 TDZE 1440 Apt Elev 1442
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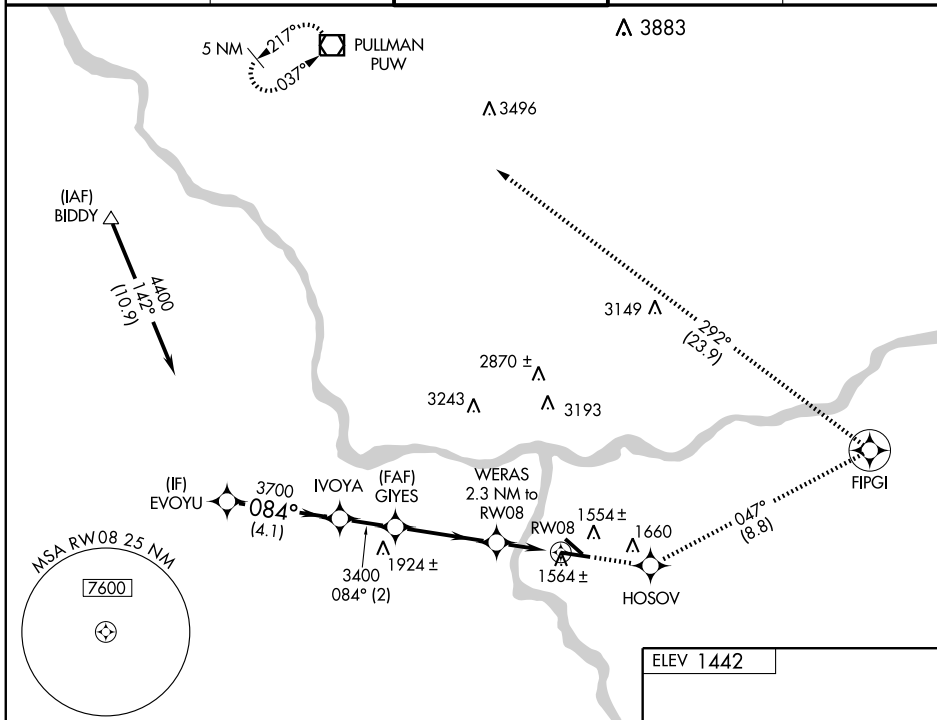
RNAV (GPS) RWY 8

LEWISTON-NEZ PERCE COUNTY (LWS)

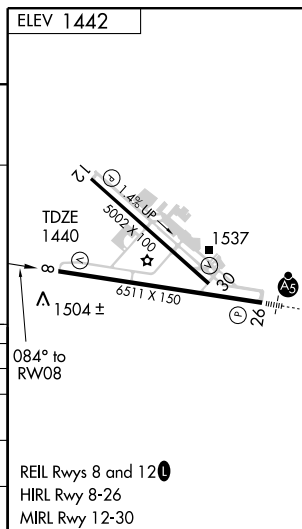
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
A DME/DME RNP-0.3 NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct HOSOV and via 047° track to FIPGI, and left turn via 292° track to PUW VOR/DME and hold.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER * 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
-----------------	--------------------------------	--	------------------	------------------



CATEGORY	A	B	C	D
LPV DA	1690-1 250 (300-1)			
LNAV/VNAV DA	1831-1½ 391 (400-1½)			
LNAV MDA	1820-1 380 (400-1)			1820-1¼ 380 (400-1¼)
CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)



WAAS CH 56500 W12A	APP CRS 117°	Rwy Idg TDZE Apt Elev 5002 1415 1442
--	------------------------	--

RNAV (GPS) RWY 12

LEWISTON-NEZ PERCE COUNTY (LWS)

⚠ Circling requires descent on glidepath to CMDA.
DME/DME RNP-0.3 NA.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 6000 direct JESDO and via 040° track to FIPGI, and left turn via 292° track to PUW VOR/DME and hold.

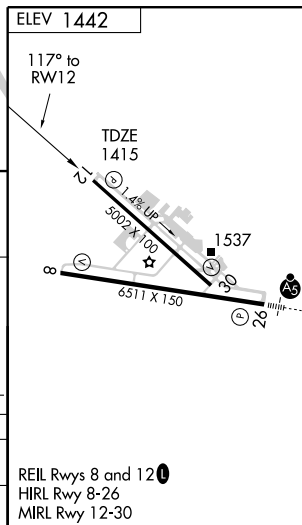
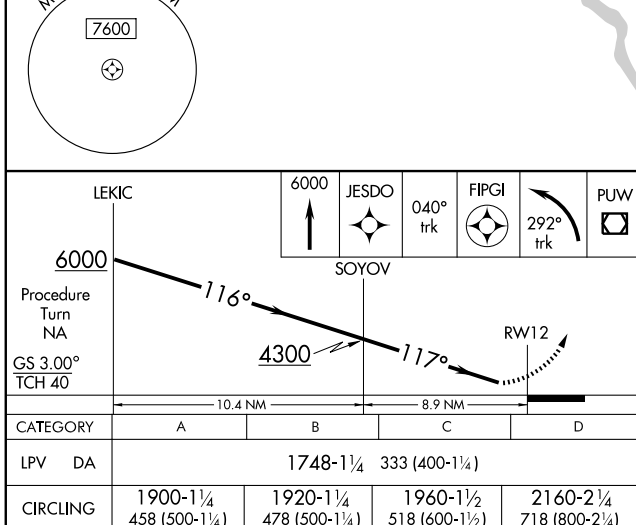
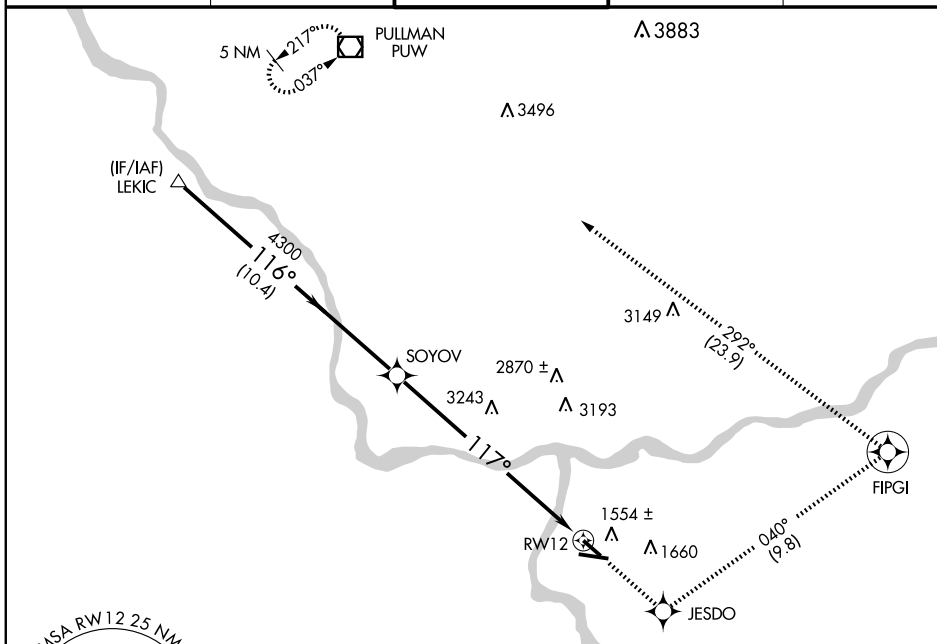
ASOS
135.575

SEATTLE CENTER
123.95 282.3

LEWISTON TOWER ★
119.4 (CTAF) 318.8

GND CON
121.9

UNICOM
122.95



AL-515 (FAA)

WAAS CH 78012 W26A	APP CRS 264°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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RNAV (GPS) RWY 26

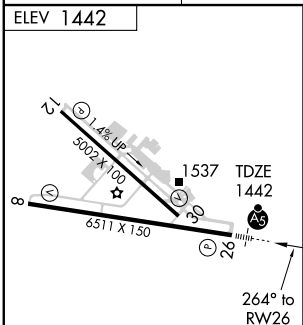
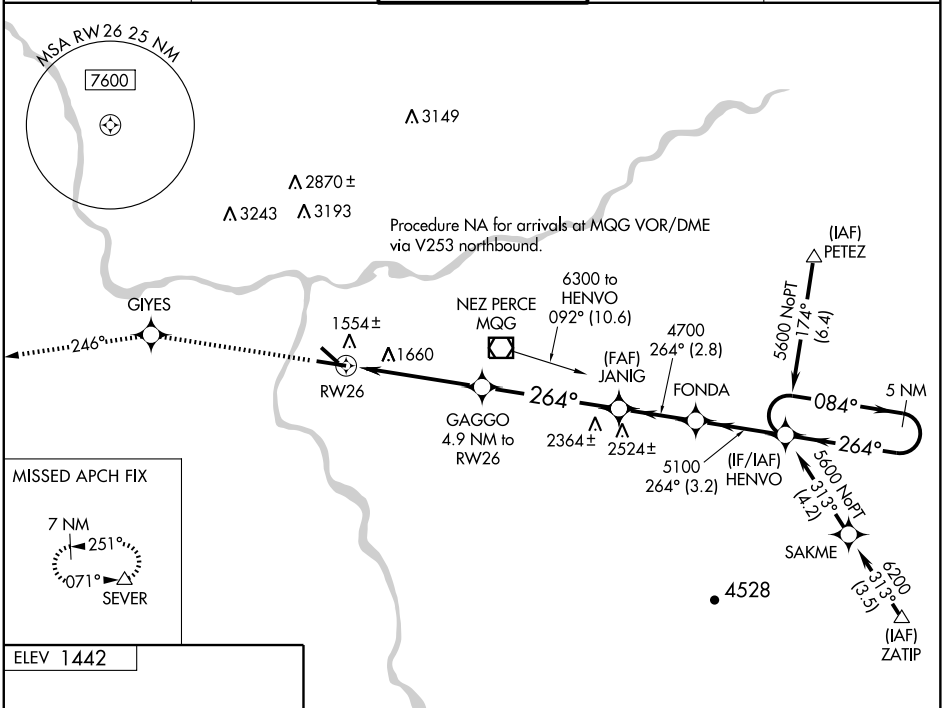
LEWISTON-NEZ PERCE COUNTY (LWS)

T When local altimeter setting not received, procedure NA.
A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 7000 direct GIYES and via 246° track to SEVER and hold, continue climb-in-hold to 7000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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7000 ↑	GIYES ✦	trk 246°	SEVER △
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* LNAV only

GAGGO 4.9 NM to RW26

JANIG 3060*

FONDA 5100

HENVO 5600

084° → ← 264° 5 NM Holding Pattern

RW26 1.4 NM 3.5 NM 4.9 NM 2.8 NM 3.2 NM

4700 GS 3.00° TCH 51

CATEGORY	A	B	C	D
LPV DA	1642-½ 200 (200-½)			
LNAV/ VNAV DA	1962-1¼ 520 (600-1¼)			
LNAV MDA	1920-½ 478 (500-½)		1920-¾ 478 (500-¾)	1920-1 478 (500-1)
CIRCLING	1920-1 478 (500-1)		1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 8 and 12 **L**
HIRL Rwy 8-26
MIRL Rwy 12-30

VOR/DME MQG 108.2 Chan 19	APP CRS 066°	Rwy Idg 6511 TDZE 1440 Apt Elev 1442
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VOR RWY 8
LEWISTON-NEZ PERCE COUNTY (LWS)



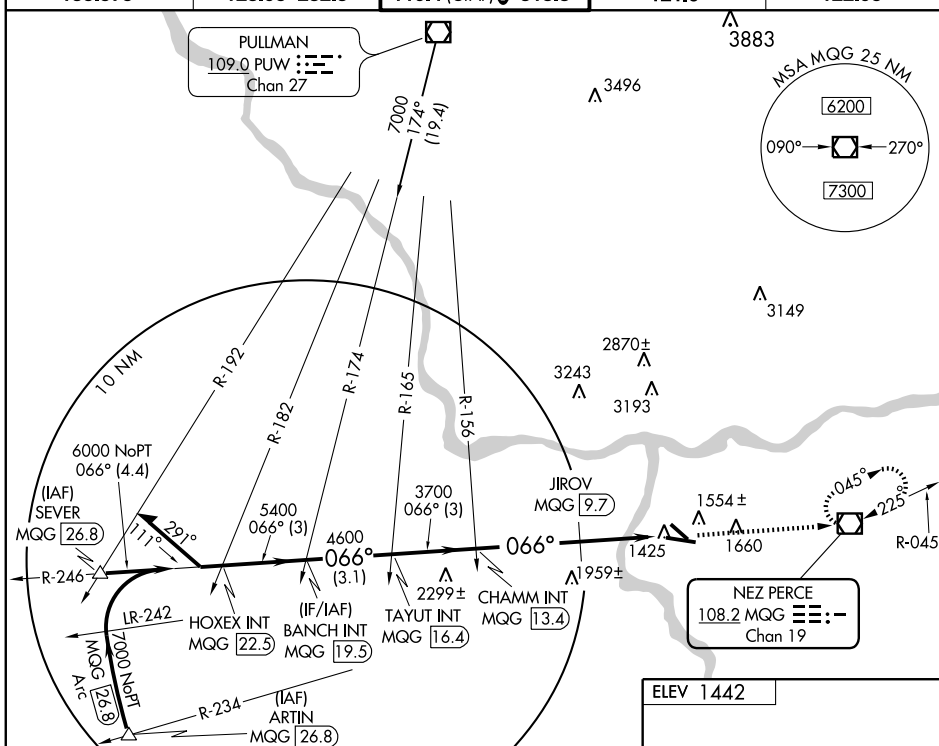
MISSED APPROACH: Climb to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.

ASOS
135.575

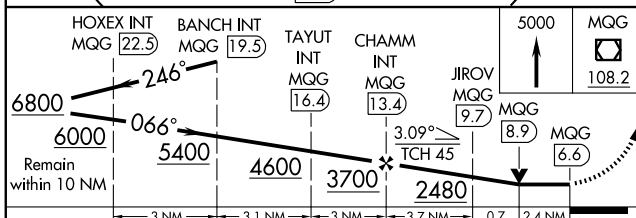
SEATTLE CENTER
123.95 282.3

LEWISTON TOWER ★
119.4 (CTAF) **L** 318.8

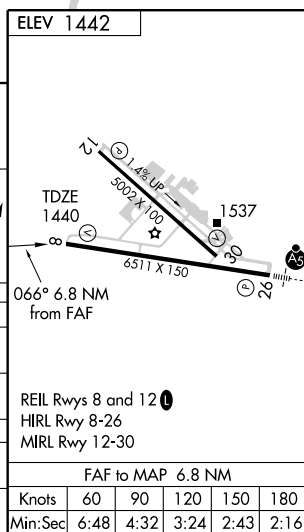
GND CON
121.9

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009



CATEGORY	A	B	C	D
S-8	2480-1¼ 1040 (1100-1¼)	2480-1½ 1040 (1100-1½)	2480-3 1040 (1100-3)	
CIRCLING	2480-1¼ 1038 (1100-1¼)	2480-1½ 1038 (1100-1½)	2480-3 1038 (1100-3)	
JIROV FIX MINIMUMS				
S-8	2220-1 780 (800-1)	2220-1¼ 780 (800-¼)	2220-2¼ 780 (800-2¼)	2220-2½ 780 (800-2½)
CIRCLING	2220-1 778 (800-1)	2220-1¼ 778 (800-¼)	2220-2¼ 778 (800-2¼)	2220-2½ 778 (800-2½)



▼

Inoperative table does not apply to S-26 Cats C and D.

▲

When local altimeter setting not received, procedure NA.

MALSR

AS

5

...

MISSED APPROACH: Climb to 2600 then climbing left turn to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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ELEV 1442

REIL Rwy 8 and 12
HIRL Rwy 8-26
MIRL Rwy 12-30

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

2600

5000

MQG

108.2

↑

↶

MAHNO

MQG 5.1

YOLYU INT

MQG 4

VGSI and descent angles not coincident.

VOR/DME

045°

225°

5200

4100

3400

242°

3.26°

TCH 50

Remain within 10 NM

0.4

1.4 NM

3.7 NM


4 NM


CATEGORY	A	B	C	D
S-26	2060-1/2 618 (700-1/2)		2060-1 3/4 618 (700-1 3/4)	2060-2 618 (700-2)
CIRCLING	2060-1 618 (700-1)		2060-1 3/4 618 (700-1 3/4)	2160-2 1/4 718 (800-2 1/4)

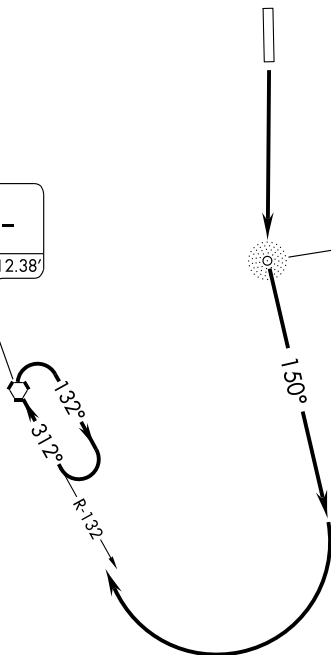
NW-1, 22 OCT 2009 to 19 NOV 2009

MCCALL ONE DEPARTURE (OBSTACLE)

ASOS 119.925
BOISE RADIO
122.35
SALT LAKE CENTER
128.05 387.15

DONNELLY
116.2 DNJ 
Chan 109
N44°46.03'-W116°12.38'
L-13, H-1

McCALL
363 IOM 
N44°48.34'-W116°06.14'



TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees beginning 291' from DER, 550' left of centerline, up to 101' AGL/5180' MSL.
Pole 3083' from DER, 1271' right of centerline, 34' AGL/5113' MSL.
Pole 4218' from DER, 521' left of centerline, 29' AGL/5128' MSL.
Shrub 63' from DER, 289' left of centerline, 7' AGL/5013' MSL.
Bldg 1066' from DER, 524' right of centerline, 36' AGL/5035' MSL.
Terrain beginning 1832' from DER, 445' left of centerline, up to 5079' MSL.
Terrain beginning 1236' from DER, 159' right of centerline, up to 5097' MSL.

TAKE-OFF MINIMUMS

Rwy 16: 200-1 or standard with minimum climb of 362' per NM to 5300.
Rwy 34: NA - Obstacles.

NOTE: ADF Required

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 9600 direct IOM NDB and via IOM NDB 150° bearing then climbing right turn to 10400 direct DNJ VORTAC, continue climb-in-hold to 10400 before proceeding on course.

Rwy Idg	6108
TDZE	5008
Apt Elev	5020

NDB RWY 34
MC CALL MUNI (MYL)



ANA

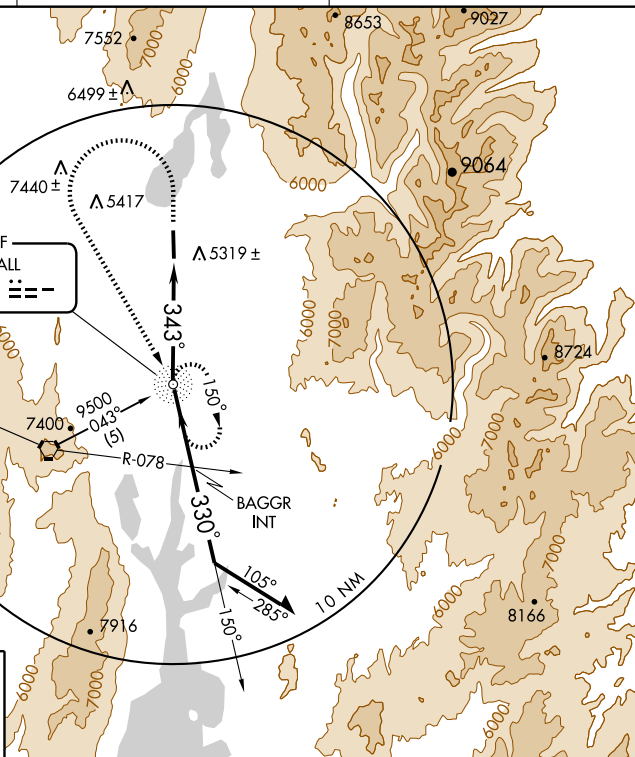
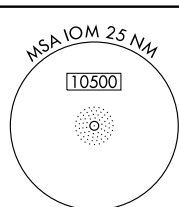
If local altimeter not received, procedure NA.

MISSED APPROACH: Climb to 6300, then climbing left turn via IOM NDB 313° bearing to IOM NDB, continue climb via IOM NDB 133° bearing to 9500, then turn right direct IOM NDB and hold.

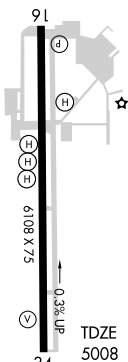
ASOS
119.925

SALT LAKE CENTER
128.05 387.15

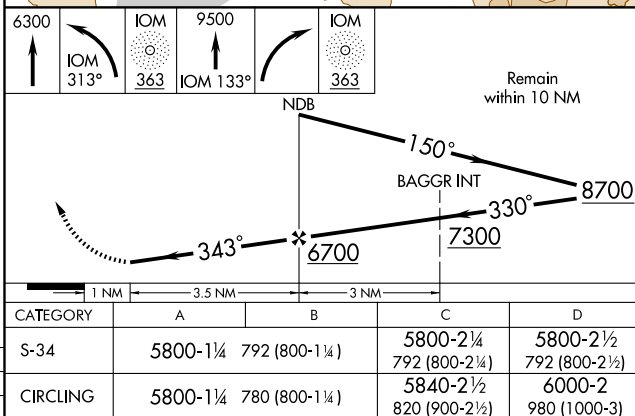
UNICOM
122.8 (CTAF)



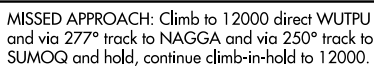
ELEV 5020



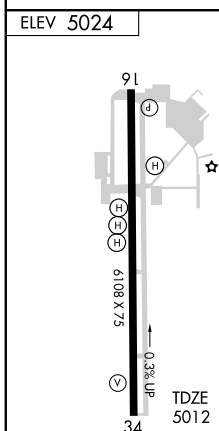
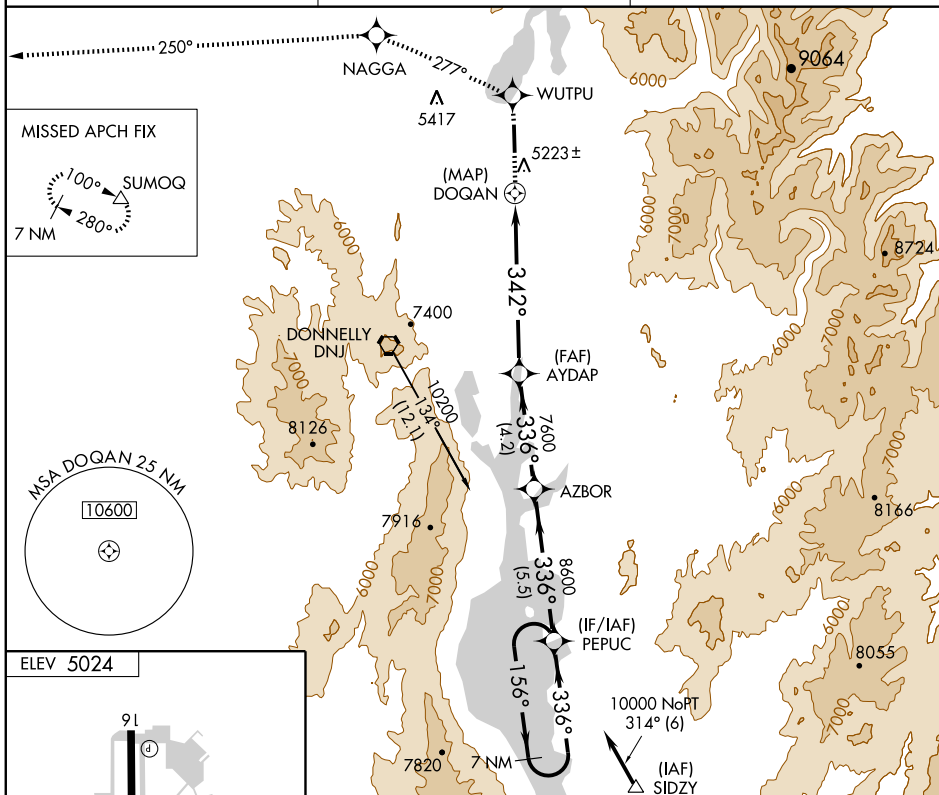
REIL Rwy 34
MIRL Rwy 16-34



MC CALL MUNI (MYL)



UNICOM
122.8 (CTAF)



12000 ↑	WUTPU ✱	277° track	NAGGA ✱	250° track	SUMOQ △	PEPUC	7 NM Holding Pattern
CATEGORY	A		B		C		D
LNAV MDA	5620-1¾ 608 (600-1¾)					5620-2 608 (600-2)	
CIRCLING	5660-1¾ 636 (700-1¾)				5840-2½ 816 (900-2½)		6000-3 976 (1000-3)

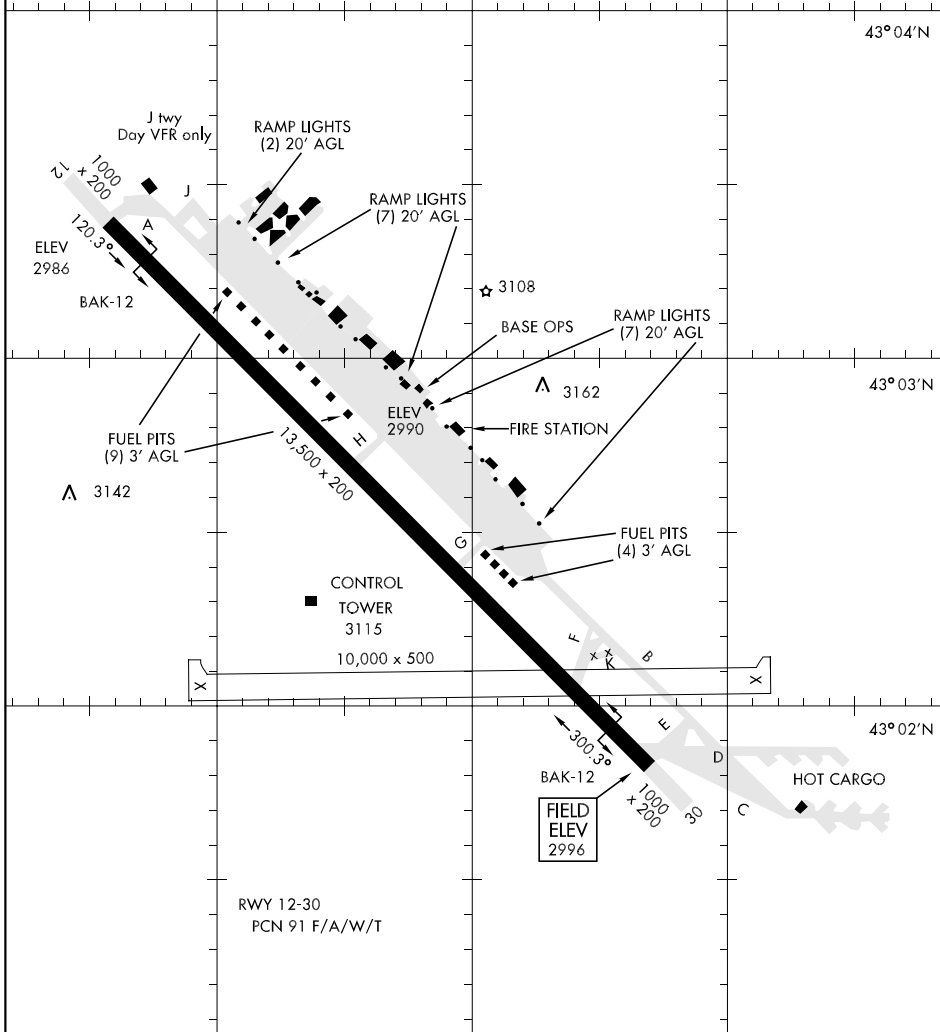
NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 34
MIRL Rwy 16-34

ATIS 273.5
CLNC DEL
127.1 290.425
GND CON
120.5 275.8
MOUNTAIN HOME
TOWER
133.85 253.5

115°53'W
115°52'W
115°51'W
VAR 14.3°E
APRIL 2008
ANNUAL RATE OF CHANGE
0.2°W

NW-1, 22 OCT 2009 to 19 NOV 2009



LOC I-MUO 110.3	APCH CRS 117°	Rwy Idg 13,500 TDZE 2986 Arprt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

* When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles,
 CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

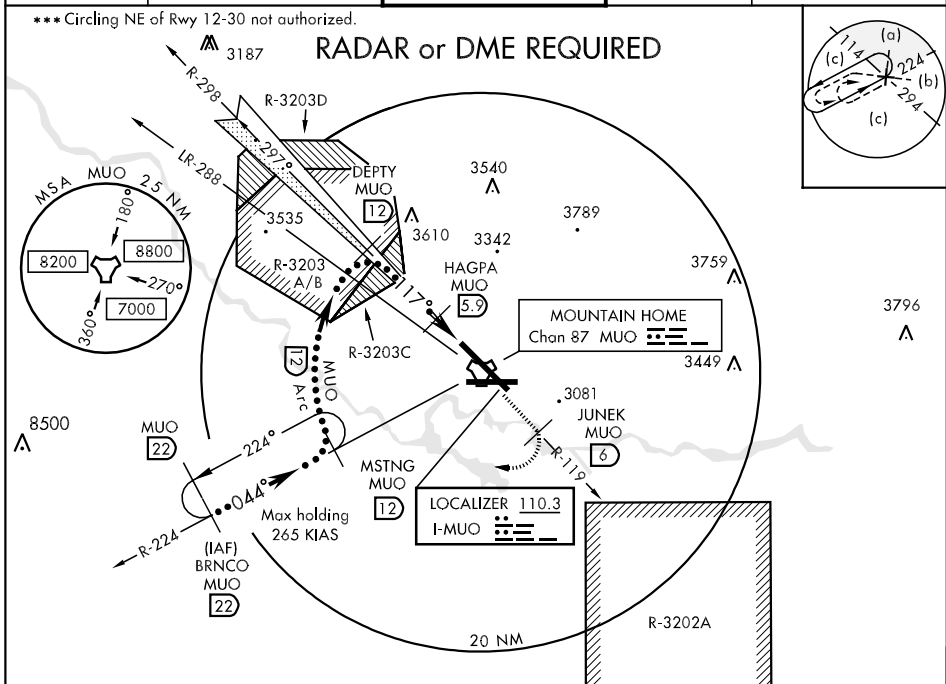


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

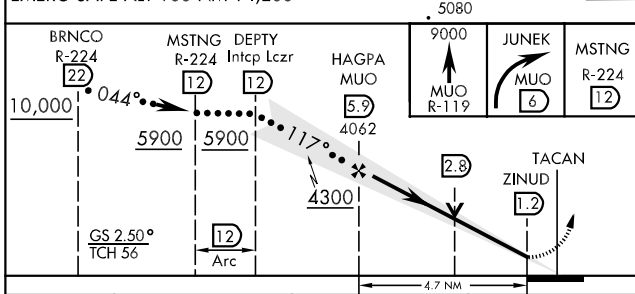
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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*** Circling NE of Rwy 12-30 not authorized.

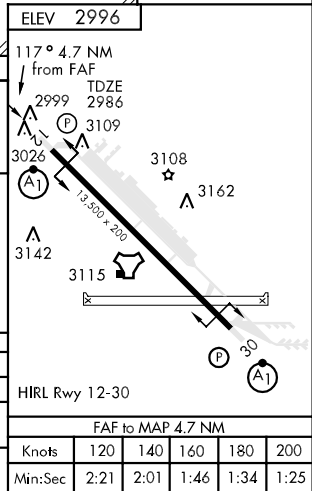
RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-ILS 12 *	3186/24	200	(200-1/2)
S-LOC 12 **	3480/40 494 (500-3/4)	3480/50 494 (500-1)	3480/60 494 (500-1 1/4)
CIRCLING ***	3520-1 1/2 524 (600-1 1/2)	3560-2	564 (600-2)

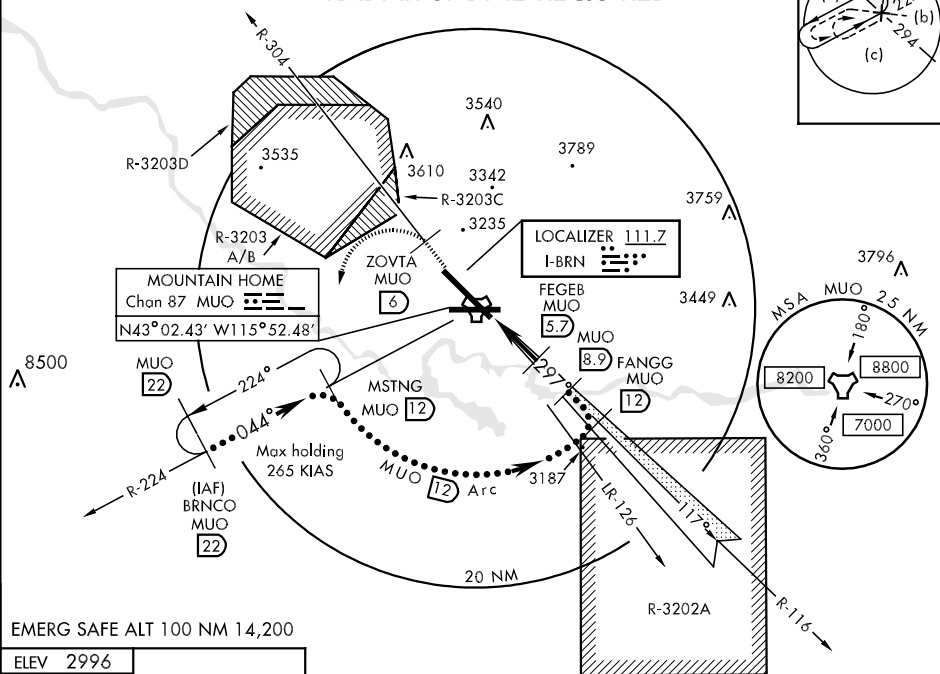


LOC I-BRN 111.7	APCH CRS 297°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)	
V * When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.			ALSF-1 	MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOYTA INT/6 DME, turn left direct MSTNG and hold.	
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425	

* * * Circling NE of Rwy 12-30 not authorized.

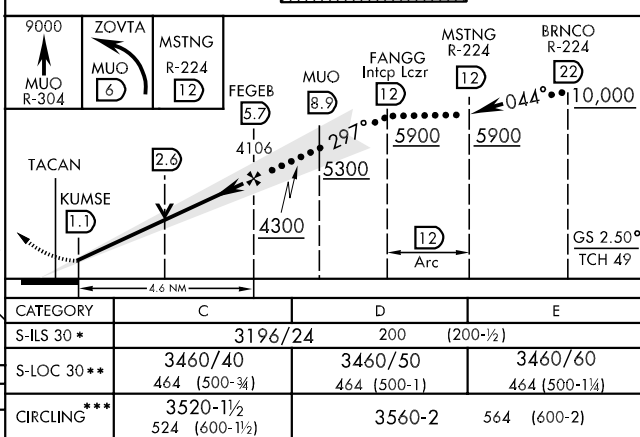
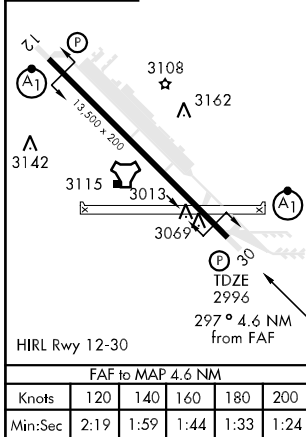
3187

RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200

ELEV 2996



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

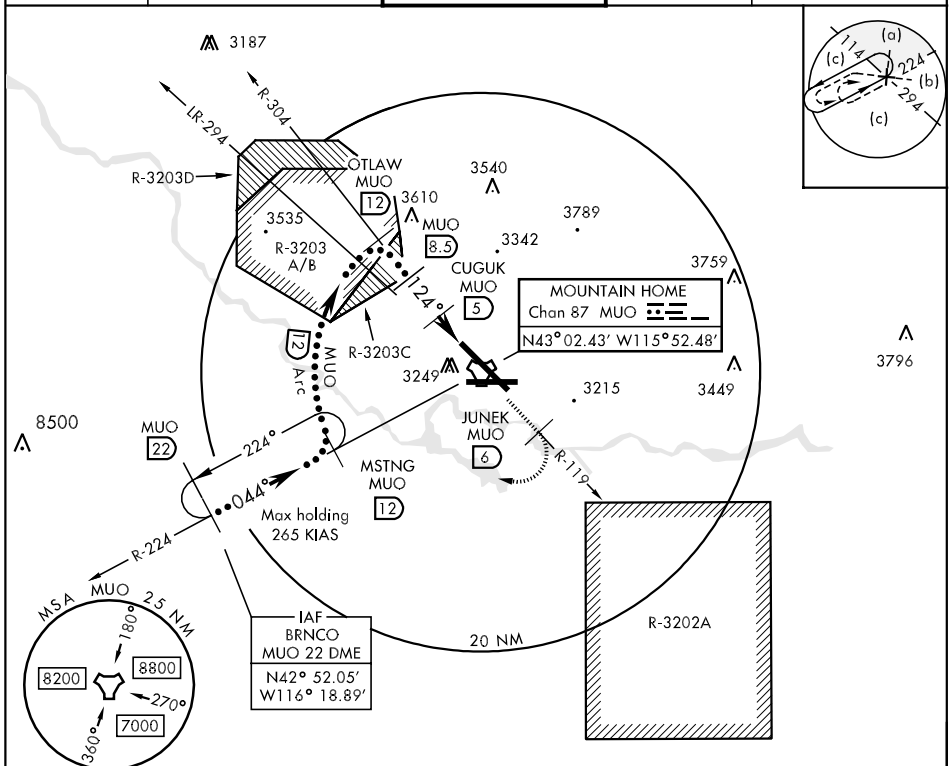
TACAN Chan 87	MUO	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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T * When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles,
CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling NE of Rwy 12-30 not authorized.

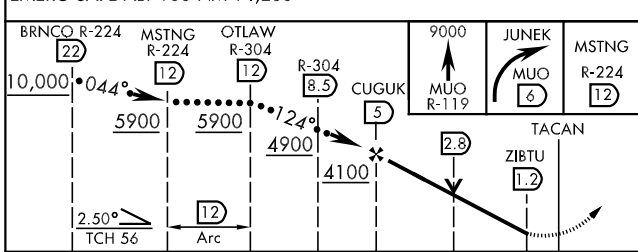


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

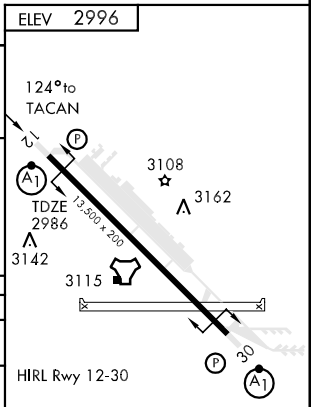
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14.200



CATEGORY	C	D	E
S-12 *	3480/40 494 (500-3/4)	3480/50 494 (500-1)	3480/60 494 (500-1/4)
CIRCLING **	3520-1 1/2 524 (600-1 1/2)	3560-2	564 (600-2)



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

ULTAGANLBYA 10

NW-1, 22 OCT 2009 to 19 NOV 2009

TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

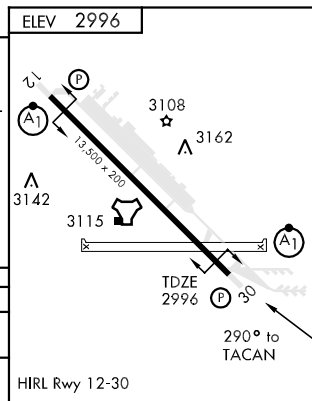
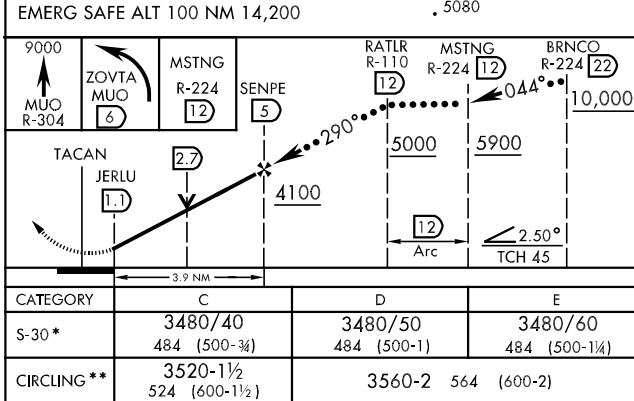
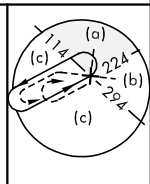
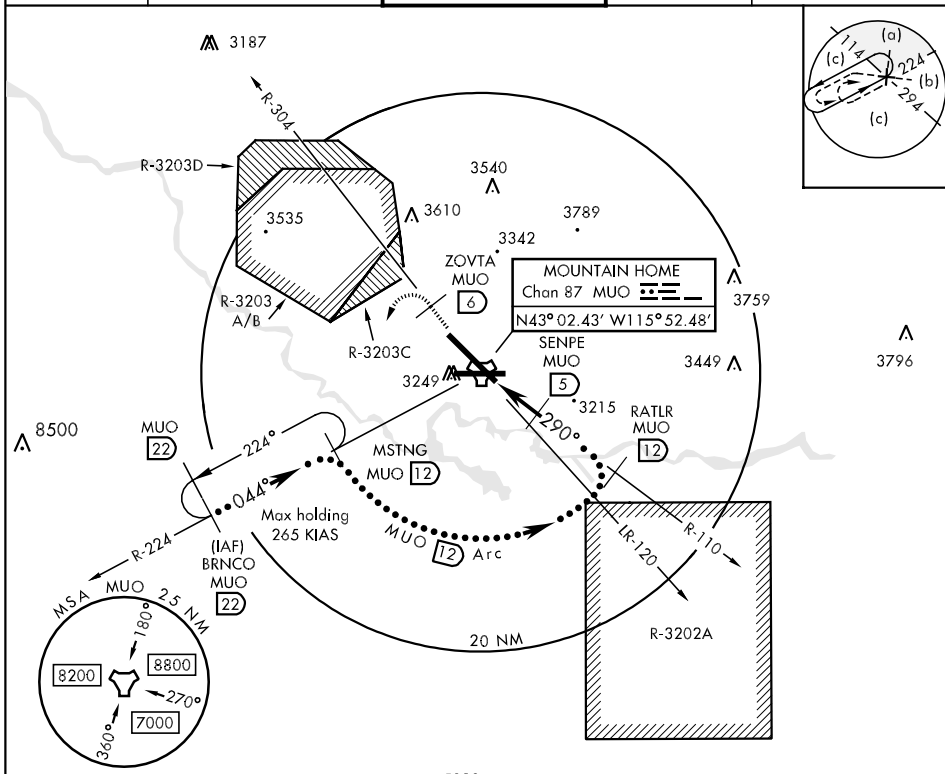
✦ When ALS inop, increase CAT C RVR to 60 and vis to 1½ miles,
CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

** Circling NE of Rwy 12-30 not authorized.



MISSED APPROACH: Climb to 9000 via
MUO R-304 to ZOVRTA INT/6 DME, turn
left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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LOC I-MUO <u>110.3</u>	APCH CRS <u>117°</u>	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996	AL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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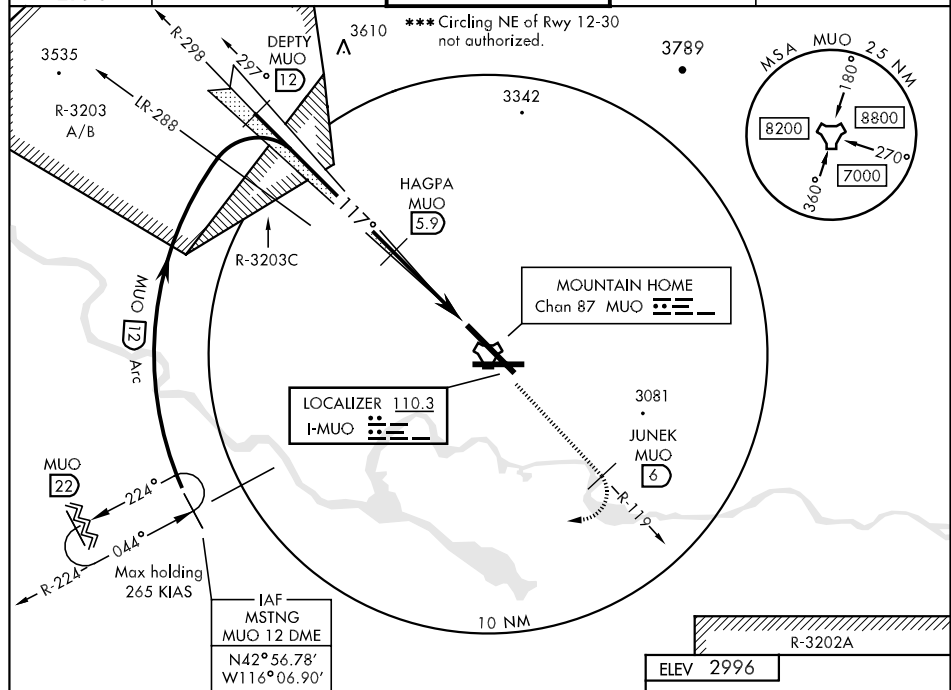
T * When ALS inop, increase RVR to 40, vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles, CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

ALSF-1



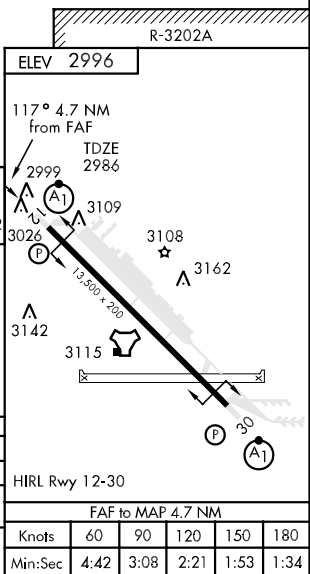
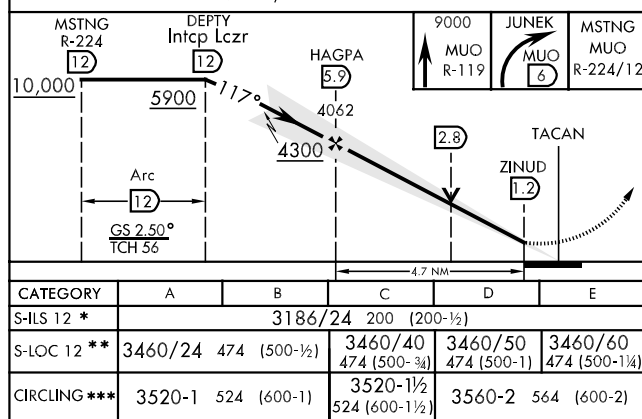
MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200



LOC I-BRN **111.7**
APCH CRS **297°**
Rwy Idg **13,500**
TDZE **2996**
Arpt Elev **2996**

AL-323 [USAF]

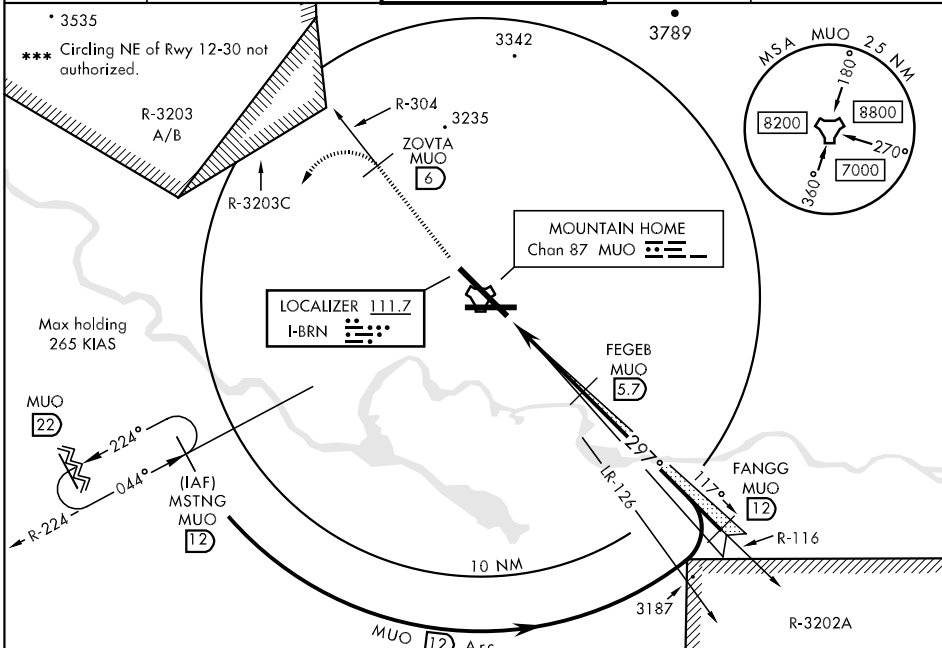
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT ABCDE RVR to 40, vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.



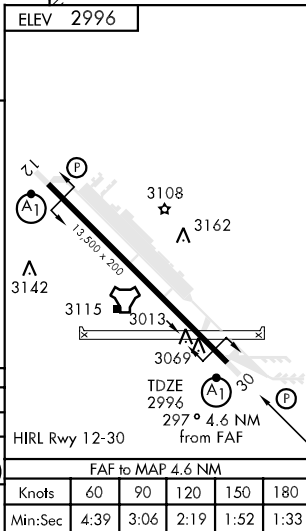
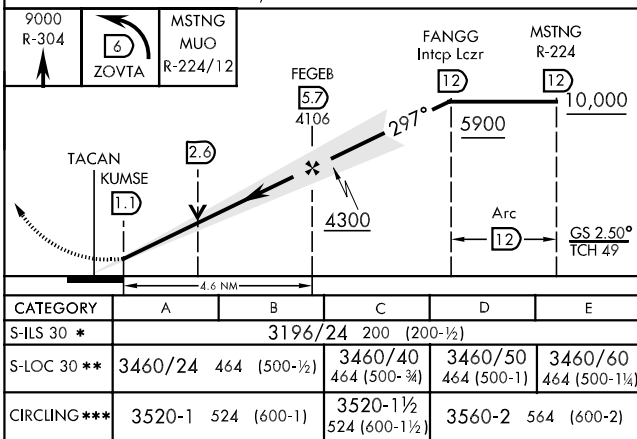
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200



TACAN MUO
Chan 87

APCH CR
124°

Rwy Idg	13,500
TDZE	2986
Arpt Elev	2996

AL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

T * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

ALSF-1

MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

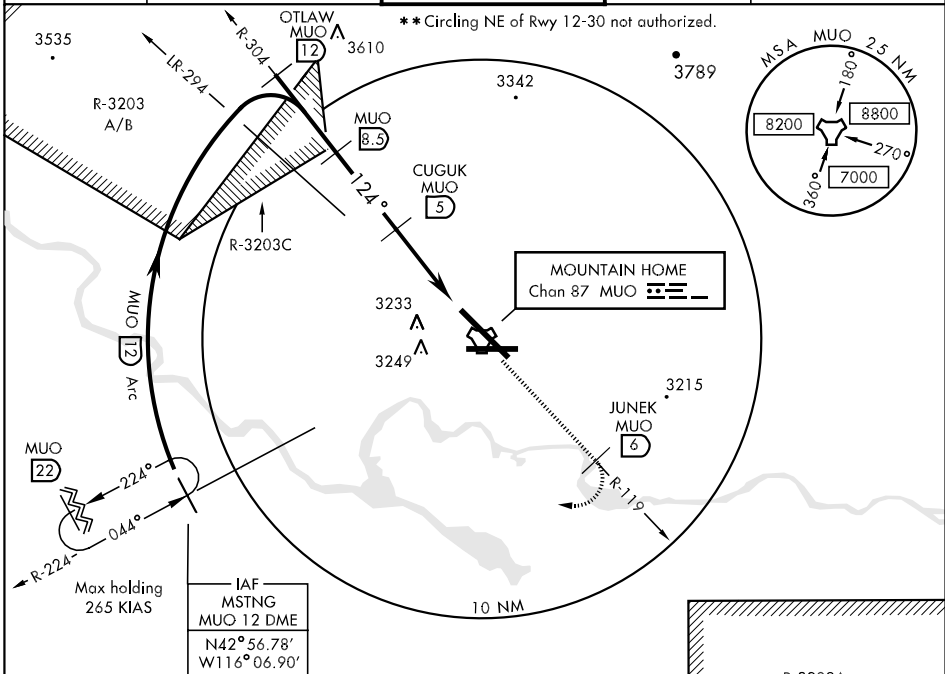
ATIS
273.5

MOUNTAIN HOME APP CON
124.8 259.1

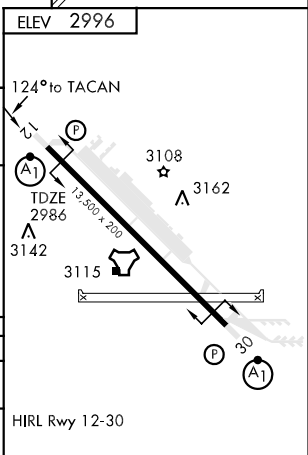
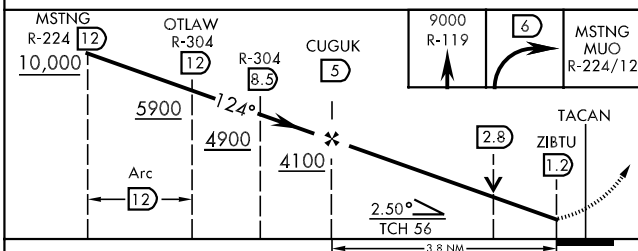
MOUNTAIN HOME TOWER
133.85 253.5

GND CON
120.5 275.8

CLNC DEL
127.1 290.425



EMERG SAFE ALT 100 NM 14.200



CATEGORY	A	B	C	D	E
S-12 *	3480/40	494 (500- $\frac{3}{4}$)		3480/50 494 (500-1)	3480/60 494 (500-1 $\frac{1}{4}$)
CIRCLING **	3520-1	524 (600-1)	3520-1 $\frac{1}{2}$ 524 (600-1 $\frac{1}{2}$)	3560-2	564 (600-2)

MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

TACAN BVM 10

NW-1, 22 OCT 2009 to 19 NOV 2009

TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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AL-323 [USAF]

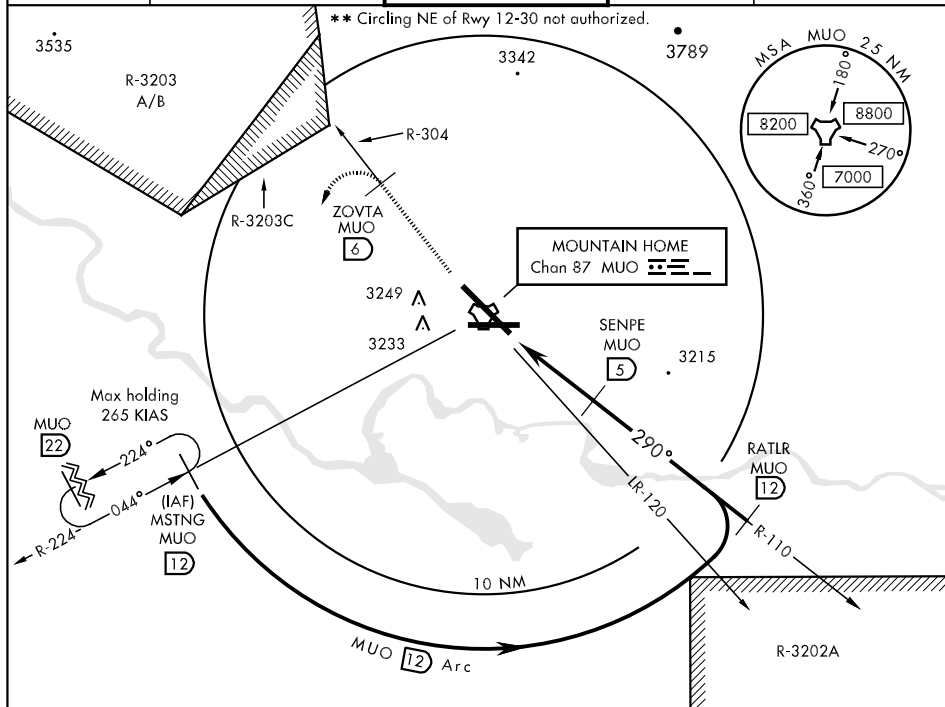
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

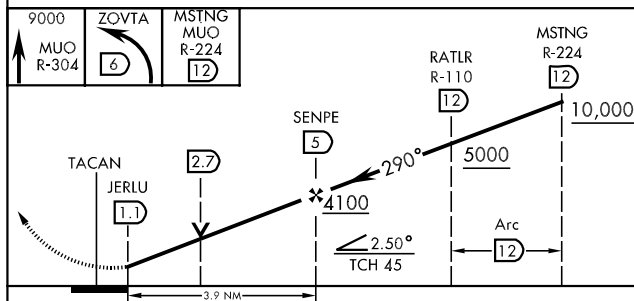


MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA INT/6 DME, turn left direct MSTNG and hold.

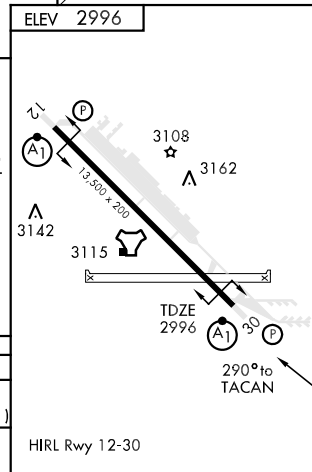
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



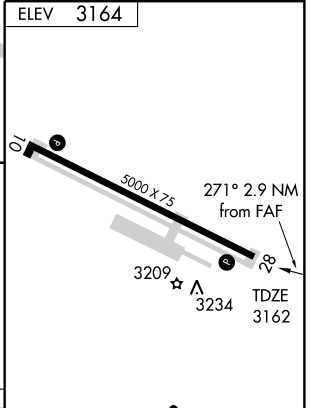
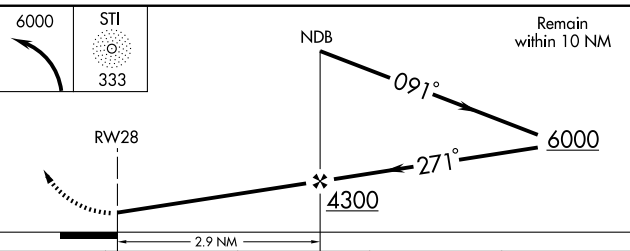
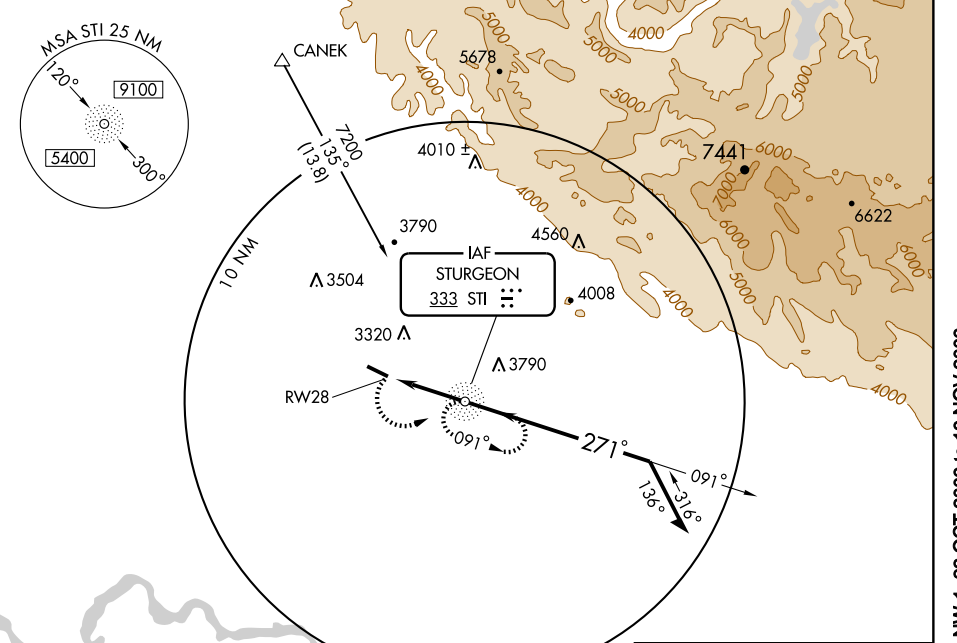
CATEGORY	A	B	C	D	E
S-30 *	3480/24	484 (500-½)	3480/40 484 (500-¾)	3480/50 484 (500-1)	3480/60 484 (500-1½)
CIRCLING **	3520-1	524 (600-1)	3520-1½ 524 (600-1½)	3560-2	564 (600-2)



Use Mountain Home AFB altimeter setting, when not received procedure not authorized.

MISSED APPROACH: Climbing left turn to 6000 direct to STI NDB and hold.

AWOS-3 122.8	MOUNTAIN HOME APP CON ★ 124.8 259.1	UNICOM 122.8 (CTAF) 0
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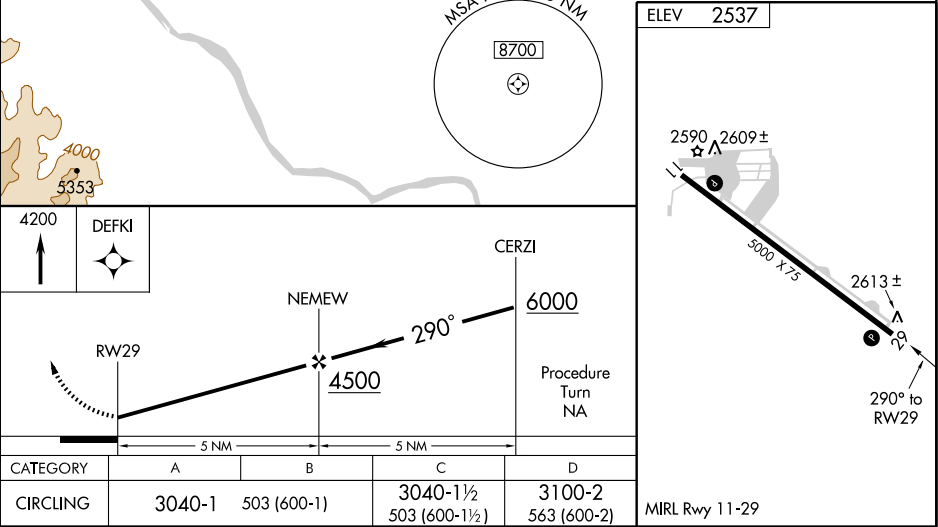
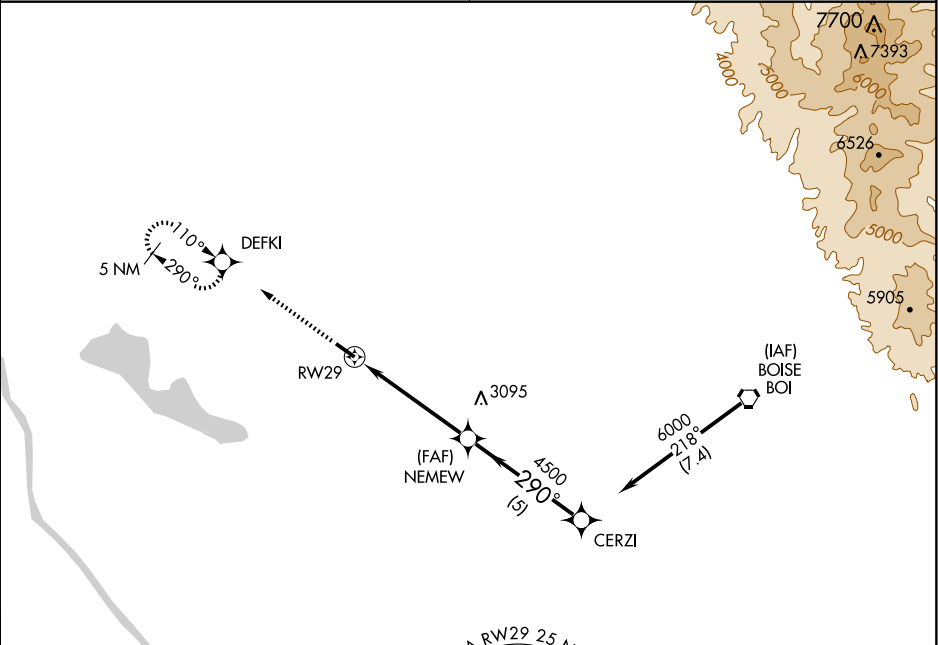
CATEGORY	A	B	C	D
S-28	3720-1 558 (600-1)		3720-1½ 558 (600-1½)	3720-1¾ 558 (600-1¾)
CIRCLING	3720-1 556 (600-1)		3760-1½ 596 (600-1½)	3840-2¼ 676 (700-2¼)

REIL Rwy 10 and 28 0					
MIRL Rwy 10-28 0					
FAF to MAP 2.9 NM					
Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

NW-1. 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	N/A
290°	TDZE	N/A
	Apt Elev	2537

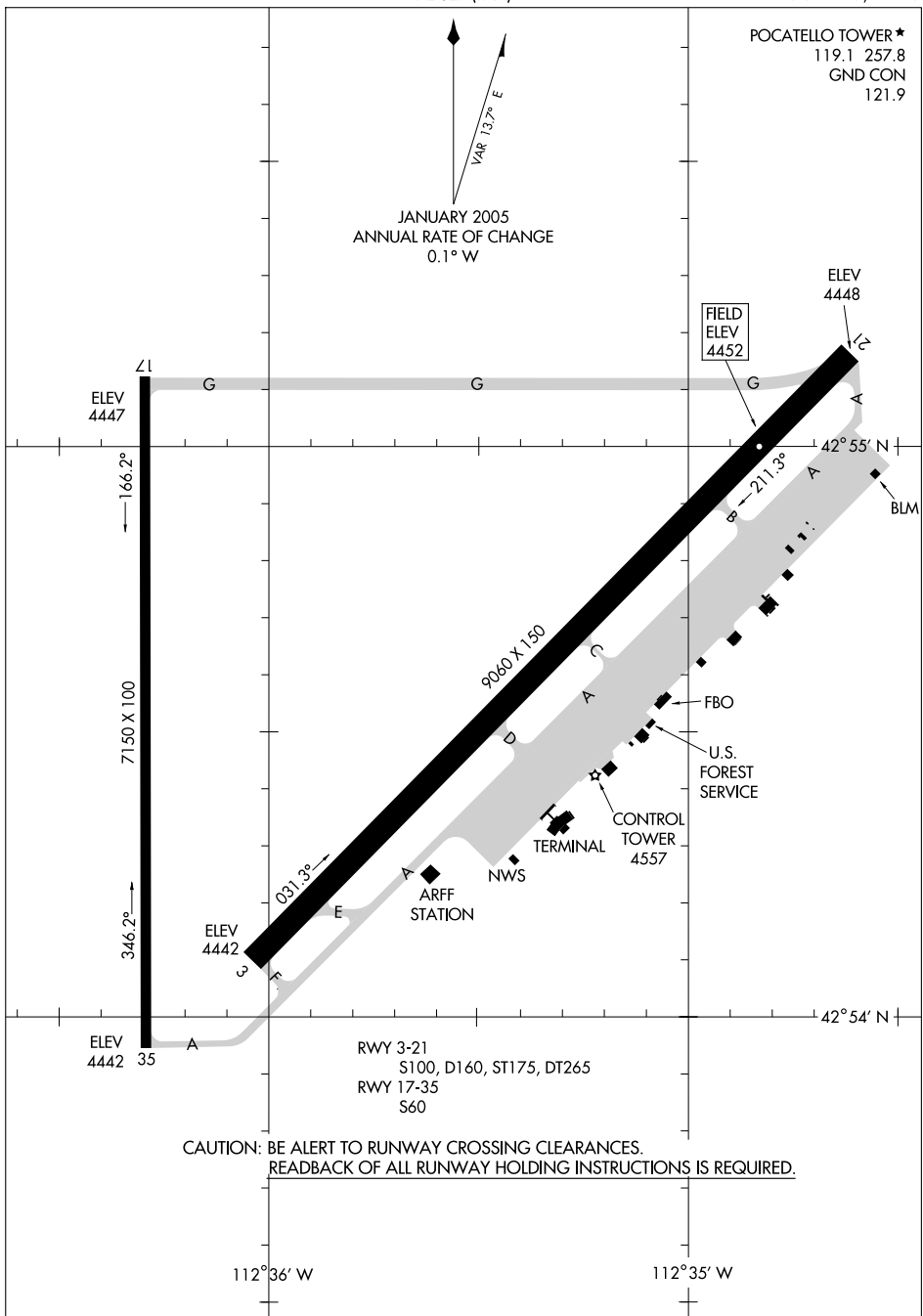
<div><div><div>T</div><div>NA</div></div><div>Use Caldwell altimeter setting.</div></div>	MISSED APPROACH: Climb to 4200 direct DEFKI WP and hold.
BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0



AIRPORT DIAGRAM

AL-327 (FAA)

POCATELLO TOWER (PIH)
POCATELLO, IDAHO



AL-327 (FAA)

ILS or LOC RWY 21
POCATELLO RGNL (PIH)

MALSR

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/ PIH 10 DME and hold W, right turns. 089° inbound).

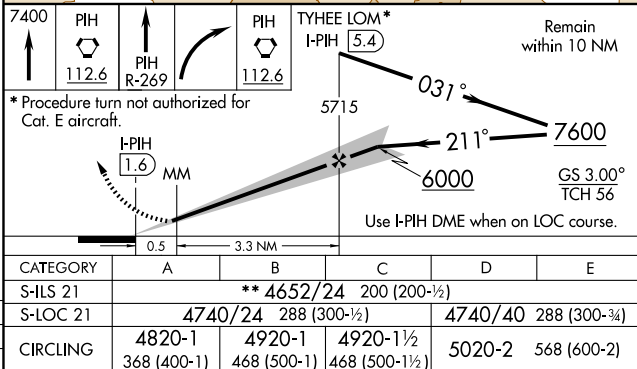
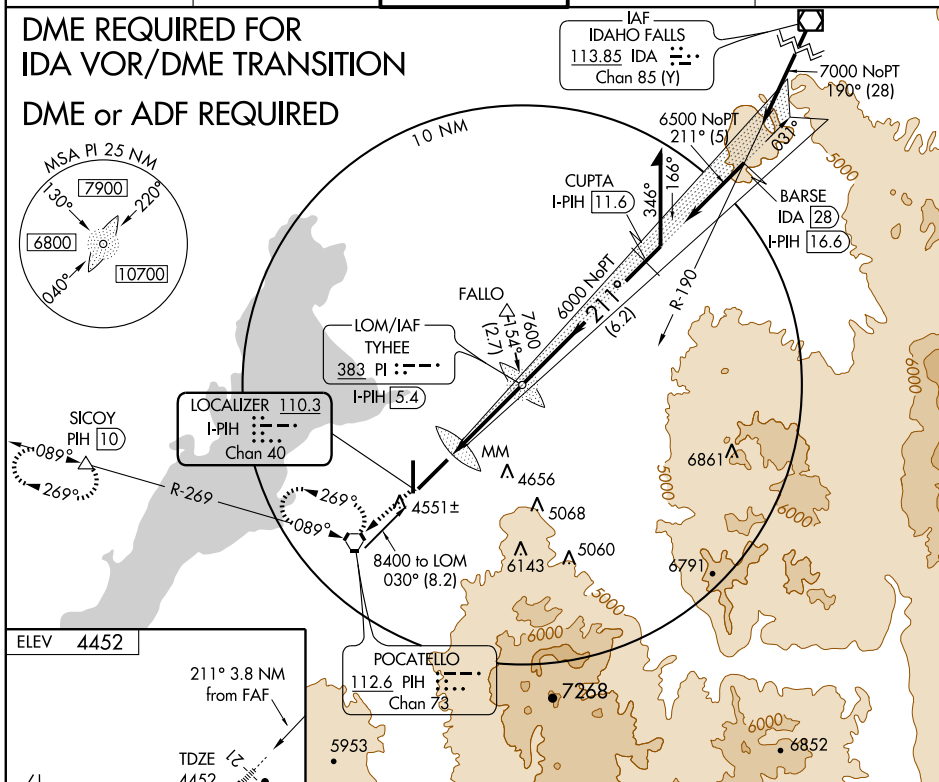
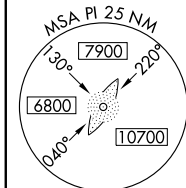
POCATELLO TOWER★
119.1 (CTAF) **0** 257.8

GND CON
121.9

UNICOM
122.95

DME REQUIRED FOR IDA VOR/DME TRANSITION

DME or ADF REQUIRED



NW-1. 22 OCT 2009 to 19 NOV 2009

WAAS CH 97502 W03A	APP CRS 031°	Rwy Idg TDZE Apt Elev	9060 4444 4452
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RNAV (GPS) RWY 3
POCATELLO RGNL (PIH)

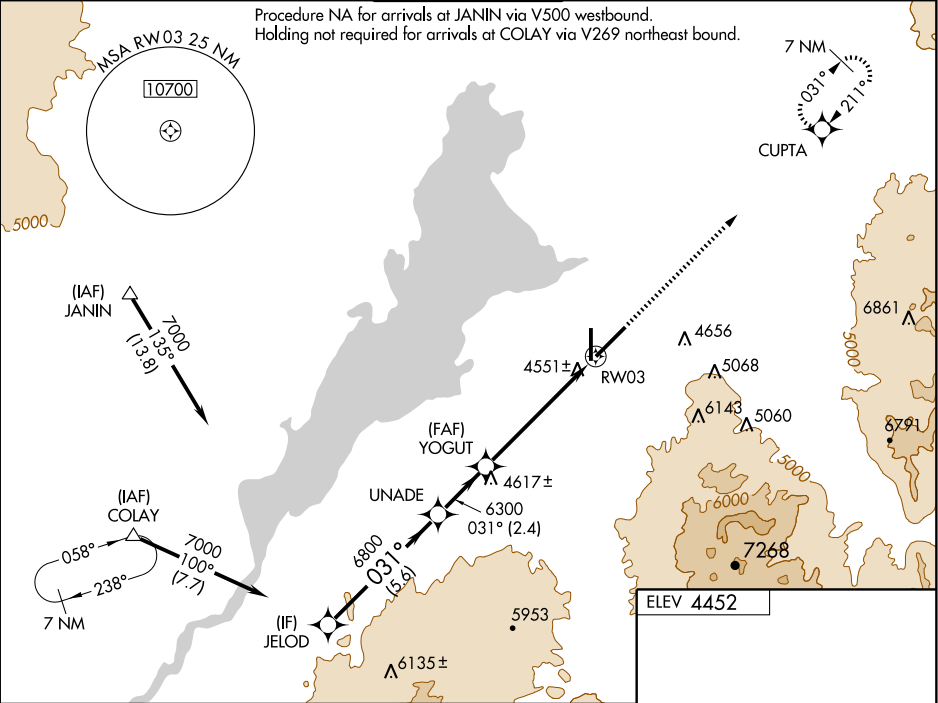
⚠ Inoperative table does not apply.
⚠ DME/DME RNP- 0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (9°F) or above 40°C (104°F). If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting and increase all DAs/MDAs 140 feet.
Baro-VNAV NA when using Idaho Falls Rgnl altimeter setting.

Circling NA southeast of Rwy 3-21.
Visibility reduction by helicopters NA.

ODALS

MISSED APPROACH:
Climb to 7300 direct
CUPTA and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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JELOD		UNADE		7300		CUPTA	
7000		031°		6800		YOGUT	
Procedure Turn NA		6300		RW03			
GS 3.00°		5.6 NM		2.4 NM		5.6 NM	
TCH 53		A		B		C	
CATEGORY		A		B		C	
LPV DA		4694-1		250 (300-1)		D	
LNAV/VNAV DA		4978-1¾		534 (600-1¾)			
LNAV MDA		4880-1 436 (500-1)		4880-1¼ 436 (500-1¼)		4880-1½ 436 (500-1½)	
CIRCLING		4980-1 528 (600-1)		4980-1½ 528 (600-1½)		5020-2 568 (600-2)	

7150 X 100

9060 X 150

TWR 4557

TDZE 4444

031° to RW03

REIL Rwy 17

HIRL Rwy 3-21

MIRL Rwy 17-35

WAAS CH 78212 W21A	APP CRS 211°	Rwy Idg TDZE Apt Elev 9060 4452 4452
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RNAV (GPS) RWY 21

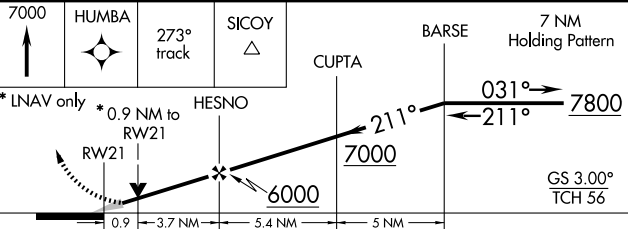
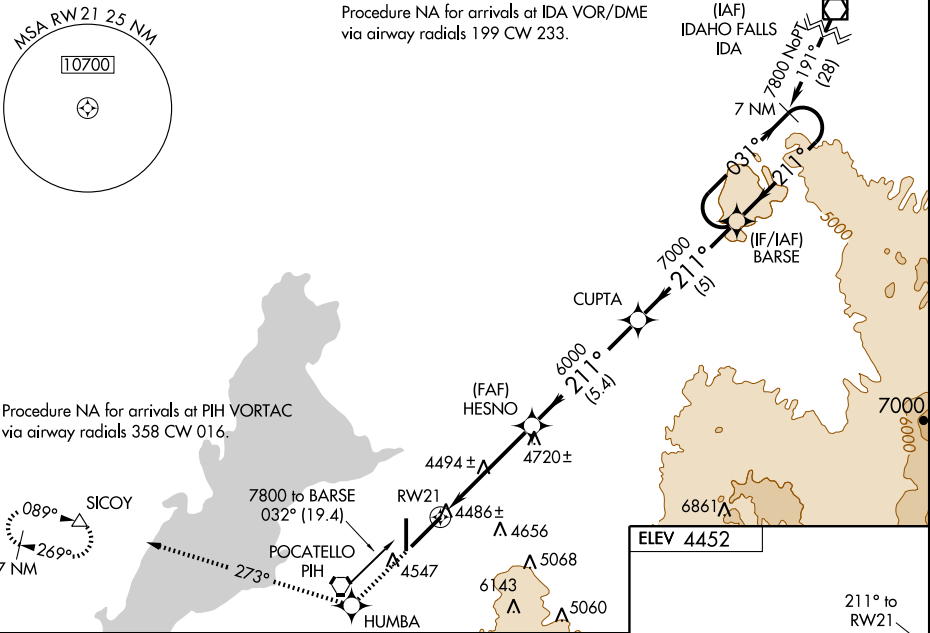
POCATELLO RGNL (PIH)

⚠ Inoperative table does not apply to LNAV Cat D. For inoperative MALSR when using Idaho Falls altimeter setting, increase LPV all Cats visibility to 1 1/4 mile.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 39°C (102°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Idaho Falls altimeter setting and increase all DA and MDA 140 feet; increase LPV all Cats, LNAV Cat C, and Circling Cat C and D visibility 1/2 mile, increase LNAV/VNAV all Cats visibility 1/2 mile.
Baro-VNAV and VDP NA when using Idaho Falls altimeter setting.
Circling NA southeast of Rwy 3-21. Circling NA at night to Rwy 17-35.

MALSR

MISSED APPROACH:
Climb to 7000 direct HUMBA and via 273° track to SICOY and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER* 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4652/24	200 (200-1/2)		
LNAV/VNAV DA	4797/40	345 (400-3/4)		
LNAV MDA	4780/24	328 (400-1/2)		4780/50 328 (400-1)
CIRCLING	4820-1 368 (400-1)	4920-1 468 (500-1)	4920-1 1/2 468 (500-1 1/2)	5020-2 568 (600-2)

ELEV 4452

REIL Rwy 17
HIRL Rwy 3-21
MIRL Rwy 17-35

VORTAC PIH <u>112.6</u> Chan 73	APP CRS 211°	Rwy Idg 9060 TDZE 4452 Apt Elev 4452
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VOR/DME or TACAN RWY 21
POCATELLO RGNL (PIH)

T Circling NA Southeast of Rwy 3-21.
For inoperative MALSR increase S-21 Cat. D
and E visibility to 1¼.



MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS
135.625

SALT LAKE CENTER
128.35 239.25

POCATELLO TOWER★
119.1 (CTAF) **L** 257.8

GND CON
121.9

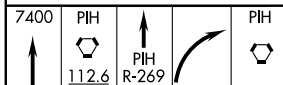
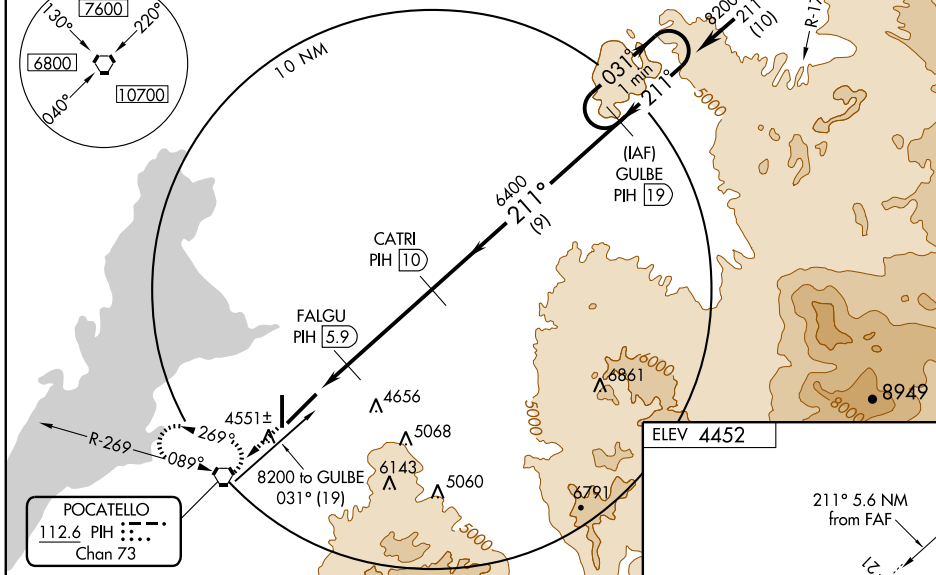
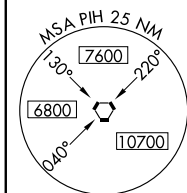
UNICOM
122.95

TACAN MISSED APCH FIX

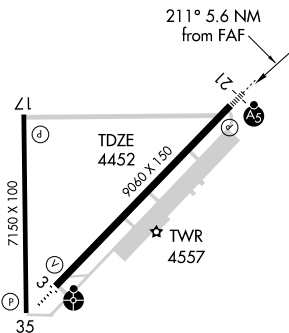
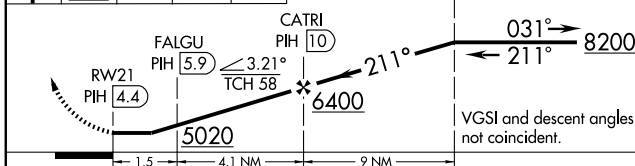
Hold in lieu not authorized for Cat E.

IDAHO FALLS
113.85 IDA $\frac{\ddot{\cdot}\cdot}{\underline{\cdot}\cdot}$
Chan 85 (Y)

(IAF)
JEGLO INT
PIH 29
IDA 20.1



GULBE One Minute
PIH 19 Holding Pattern



CATEGORY	A	B	C	D	E
S-21	4840/24 388 (400-½)			4840/50	388 (400-1)
CIRCLING	4840-1 388 (400-1)	4920-1 468 (500-1)	4920-1½ 468 (500-1½)	5020-2	568 (600-2)

REIL Rwy 17
HIRL Rwy 3-21 **L**
MIRL Rwy 17-35 **L**

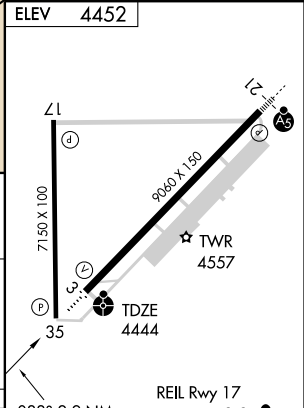
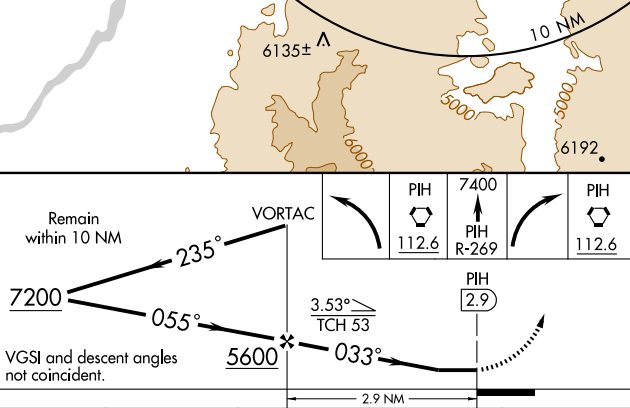
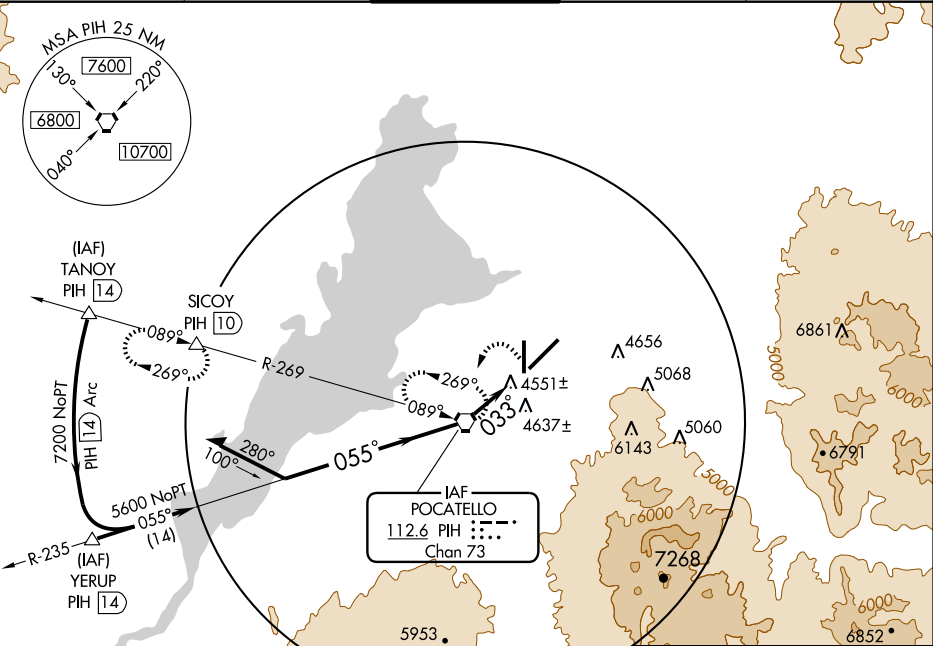
VORTAC PIH	APP CRS	Rwy Idg	9060
112.6	033°	TDZE	4444
Chan 73		Apt Elev	4452

⚠ Circling not authorized Southeast of Rwy 3-21.
Inoperative table does not apply.



MISSED APPROACH: Climbing left turn direct PIH VORTAC, continue to 7400 via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER* 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-3	4940-1	496 (500-1)	NA	NA
CIRCLING	4940-1 488 (500-1)	4940-1½ 488 (500-1½)	NA	NA

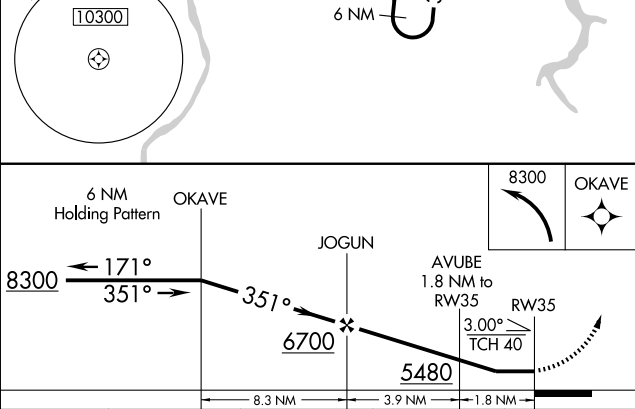
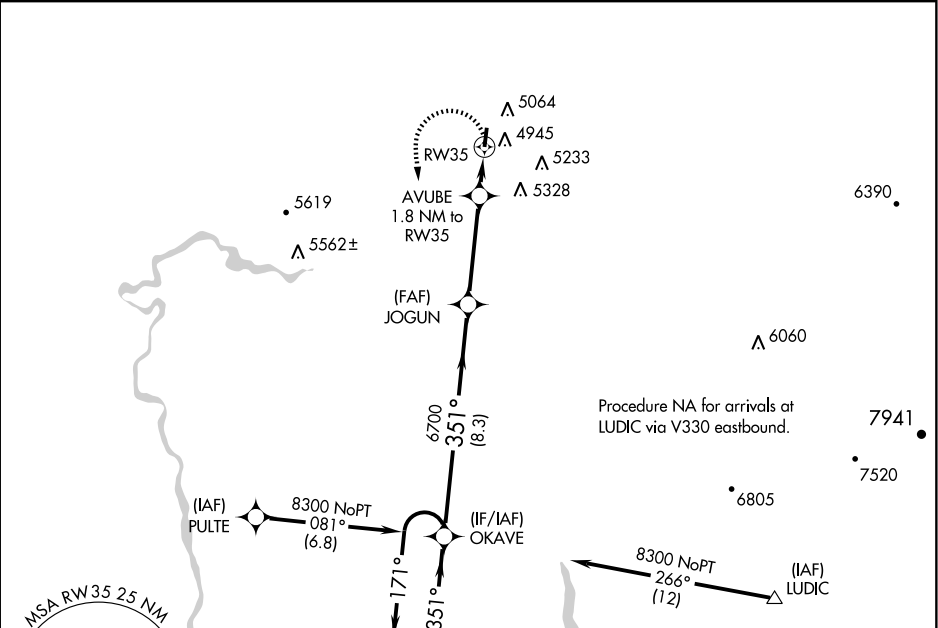
Knots	60	90	120	150	180
Min:Sec	2:54	1:56	1:27	1:10	0:58

APP CRS	Rwy Idg	3900
351°	TDZE	4858
	Apt Elev	4858

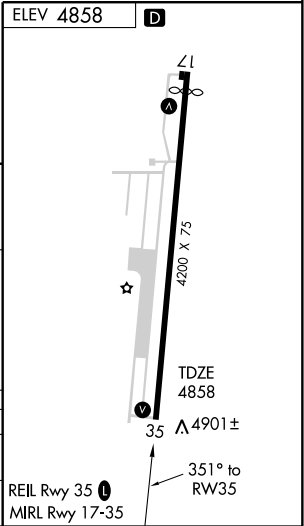
RNAV (GPS) RWY 35
REXBURG-MADISON COUNTY (R.XE)

<p>▼ ▲</p> <p>If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting and increase all MDAs 80 feet. When VGSI inoperative, procedure NA at night. DME/DME RNP-0.3 NA.</p>	<p>MISSED APPROACH: Climbing left turn to 8300 direct OKAVE and hold.</p>
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ASOS 135.075	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
RNAV MDA	5260-1	402 (500-1)	5260-1¼	402 (500-1¼)
CIRCLING	5380-1 522 (600-1)	5580-1 722 (800-1)	5580-2 722 (800-2)	5620-2½ 762 (800-2½)

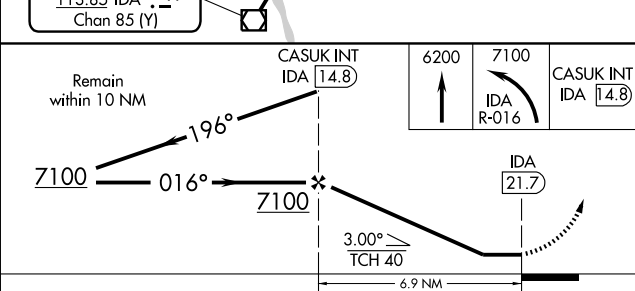
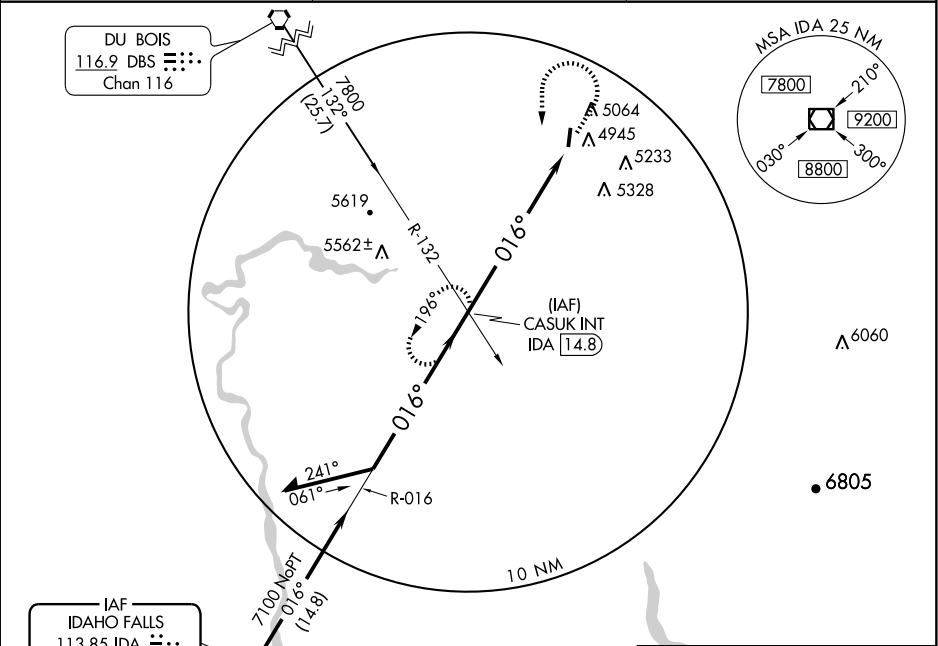


VOR/DME IDA 113.85 Chan 85 (Y)	APP CRS 016°	Rwy Idg TDZE Apt Elev 3900 4858 4858
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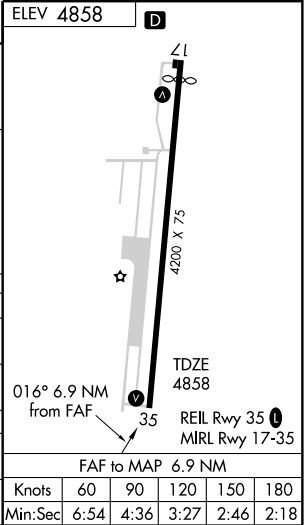
VOR RWY 35
REXBURG-MADISON COUNTY (R.XE)

NA If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting minima.	MISSED APPROACH: Climb to 6200 then climbing left turn to 7100 via IDA R-016 to CASUK Int/IDA 14.8 DME and hold.
--	--

ASOS 135.075	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
------------------------	--	--

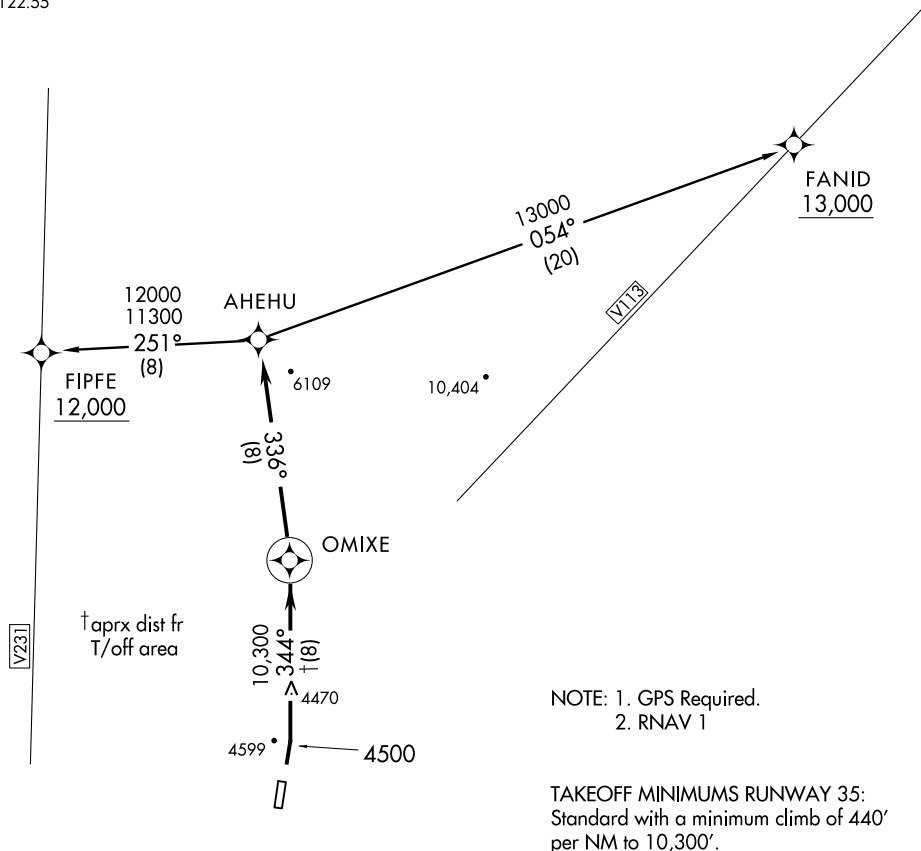


CATEGORY	A	B	C	D
S-35	5640-1 782 (800-1)	5640-1¼ 782 (800-1¼)	5640-2¼ 782 (800-2¼)	5640-2½ 782 (800-2½)
CIRCLING	5640-1 782 (800-1)	5640-1¼ 782 (800-1¼)	5640-2¼ 782 (800-2¼)	5660-2½ 802 (900-2½)
IDAHO FALLS RGNL ALTIMETER SETTING MINIMUMS				
S-35	5820-1¼ 962 (1000-1¼)	5820-1½ 962 (1000-1½)	5820-3	962 (1000-3)
CIRCLING	5820-1¼ 962 (1000-1¼)	5820-1½ 962 (1000-1½)	5820-3	962 (1000-3)



AHEHU ONE DEPARTURE (RNAV)

SALT LAKE CENTER
132.4 338.3
BOISE RADIO
122.55



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: NA.

TAKE-OFF RUNWAY 35: Climb runway heading to 4500', then climbing left turn to 10,300' via 344° course to OMIXE WP, then via 336° course to AHEHU WP.
Thence

FANID TRANSITION (AHEHU1.FANID):

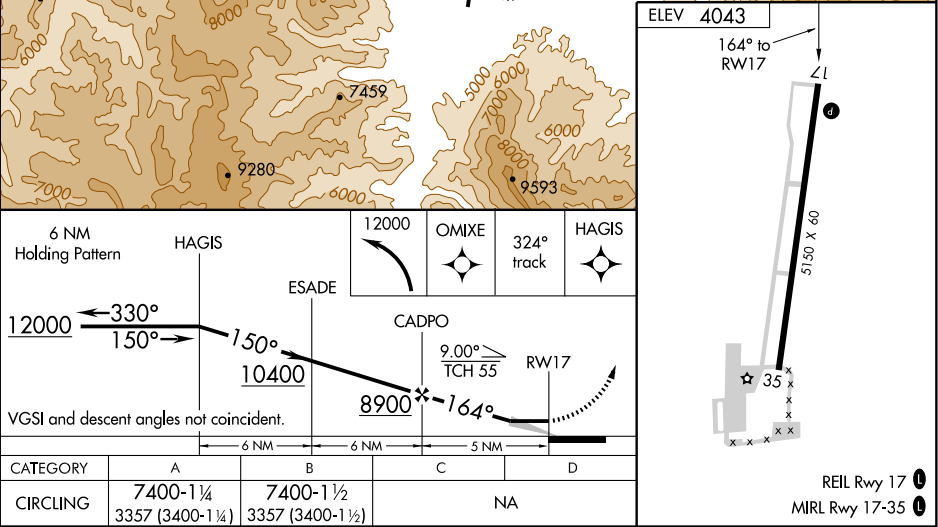
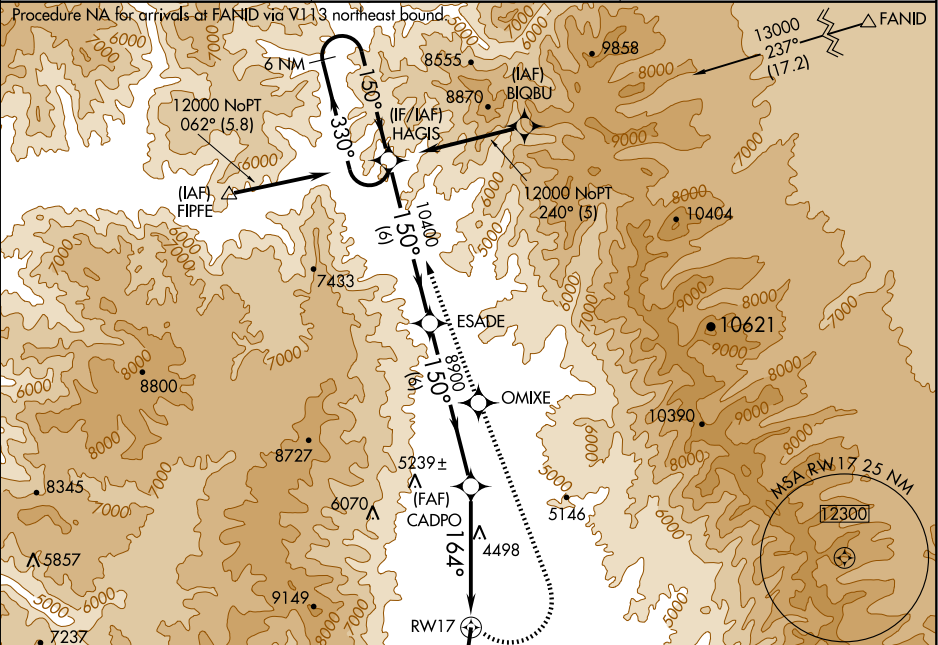
FIPFE TRANSITION (AHEHU1.FIPFE):

APP CRS 164°	Rwy ldg TDZE Apt Elev	N/A N/A 4043
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RNAV (GPS) -C
SALMON/LEMHI COUNTY (SMN)

NA	DME/DME RNP -0.3 NA.	MISSED APPROACH: Climbing left turn to 12000 direct OMIXE and via 324° track to HAGIS and hold. Continue climb-in-hold to 12000.
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AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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VOR/DME LKT
113.5
Chan **82**

APP CRS
038°

Rwy Idg
TDZE
Apt Elev
N/A
N/A
4043

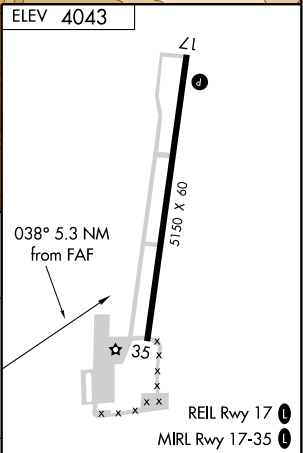
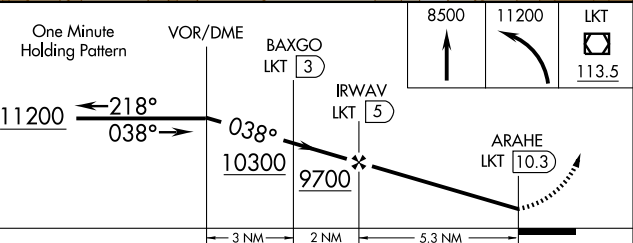
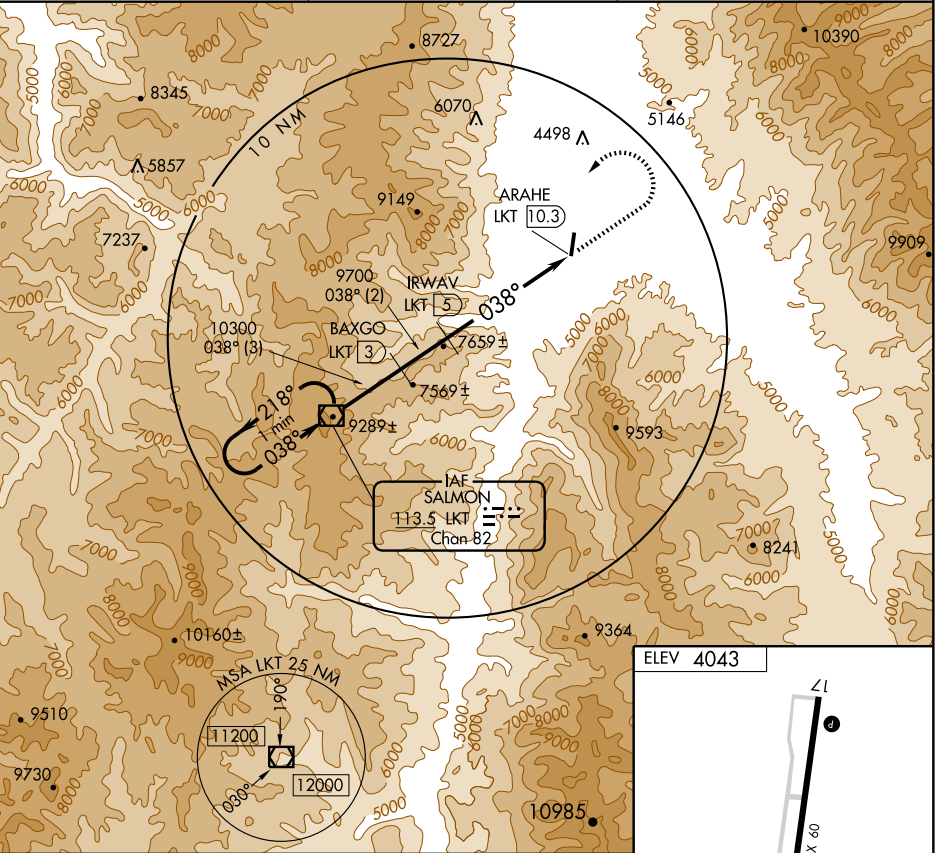
VOR/DME-B

SALMON/LEMHI COUNTY (SMN)

**NA**

MISSED APPROACH: Climb to 8500 then climbing left turn to 11200 direct LKT VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	8000-1¼ 3957 (4000-1¼)	8000-1½ 3957 (4000-1½)	8000-3 3957 (4000-3)	NA	Min:Sec					

LOC/DME I-RPO 109.1 Chan 28	APP CRS 014°	Rwy Idg TDZE Apt Elev N/A N/A 2131
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LOC/DME-A
SANDPOINT (SZT)

T
ANA Circling not authorized west of Rwy 1-19.

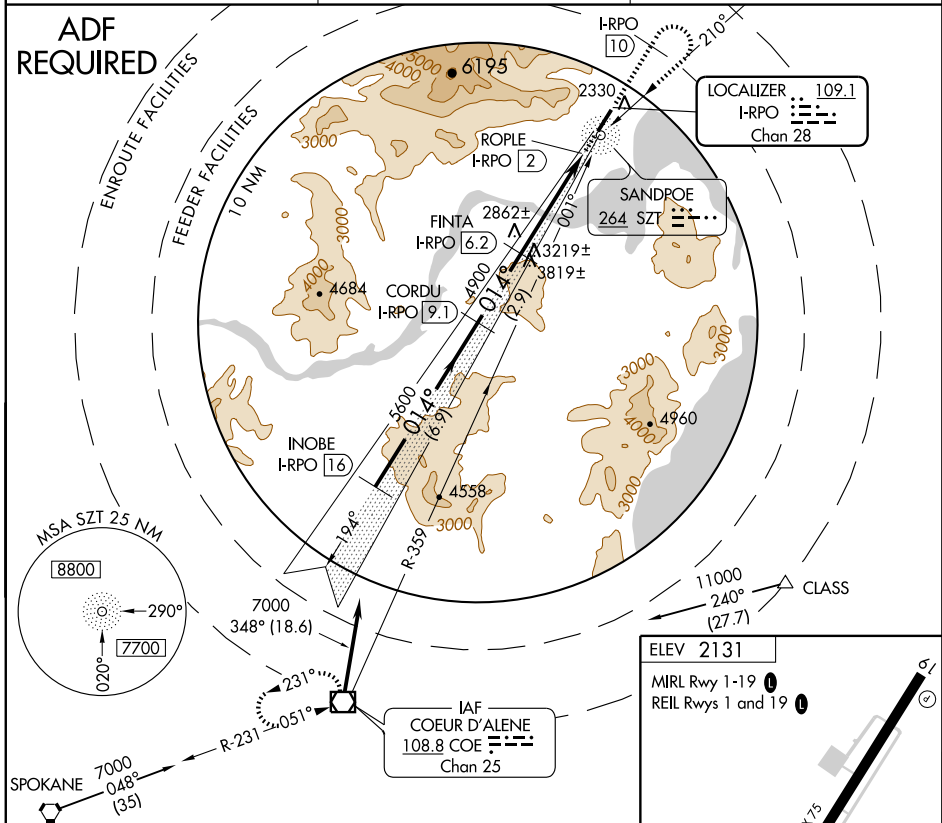
MISSED APPROACH: Climb to 8000 via heading 014° to I-RPO 10 DME, then climbing right turn via SZT bearing 030° to SZT NDB, cross SZT NDB at 8000, then via SZT bearing 181° and COE R-359 to COE VOR/DME and hold.

AWOS-3
135.425

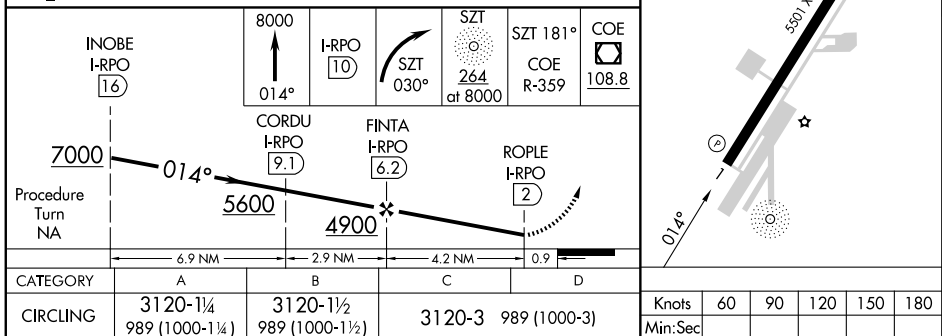
SEATTLE CENTER
123.95 282.3

UNICOM
122.7 (CTAF) **L**

ADF
REQUIRED

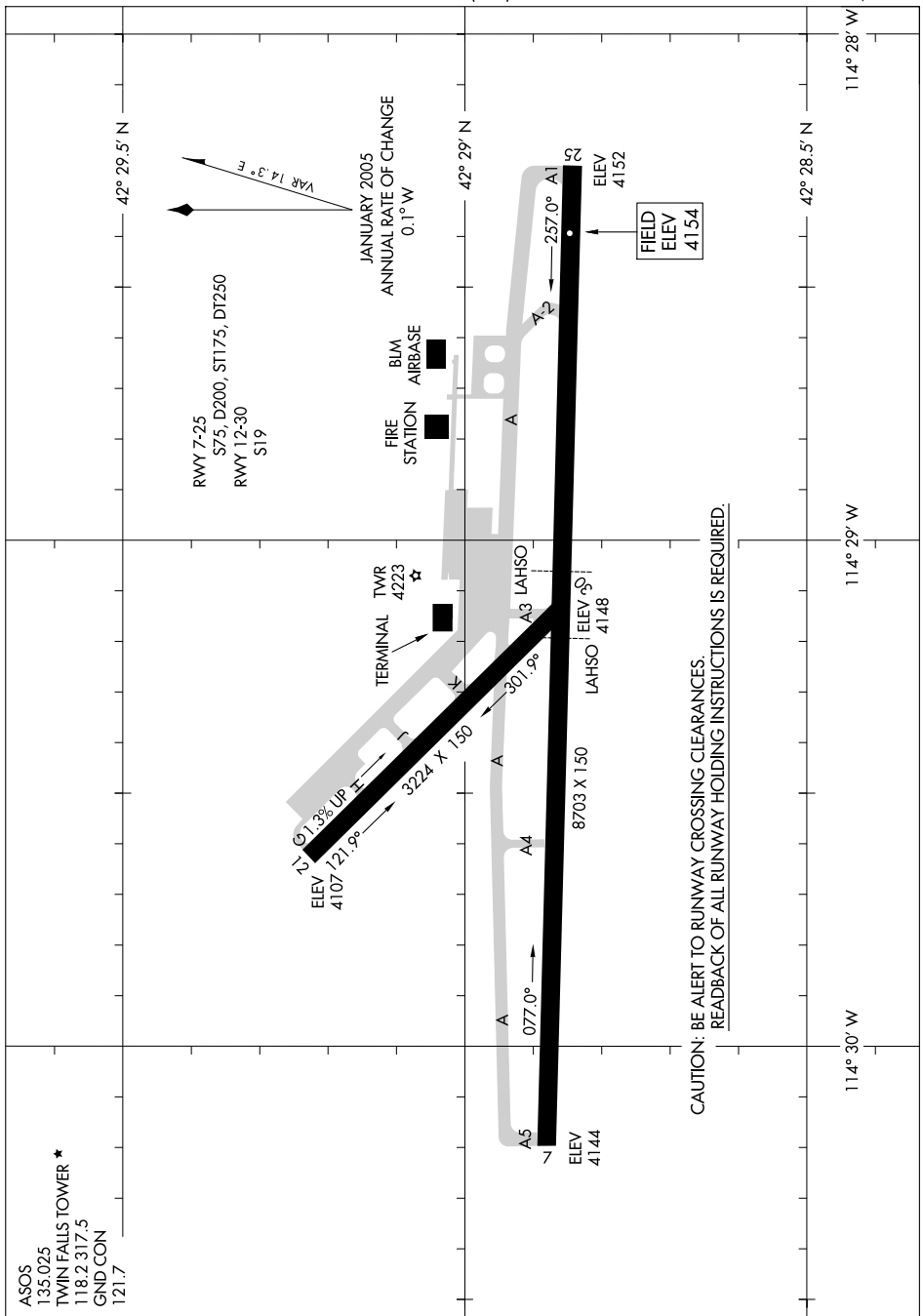


NW-1. 22 OCT 2009 to 19 NOV 2009



AIRPORT DIAGRAM

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL ('TWF')
AL-885 (FAA) TWIN FALLS, IDAHO



TWIN FALLS, IDAHO

ILS RWY 25

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)



For inoperative MALS, increase S-ILS Cat. E visibility to 1 mile and S-LOC Cat. D and E to 1 mile.

MALS



MISSED APPROACH: Climb to 5000 then climbing right turn to 6700 direct TWF VORTAC and hold.

ASOS

135.025

TWIN FALLS APP CON *

126.7 353.75

TWIN FALLS TOWER *

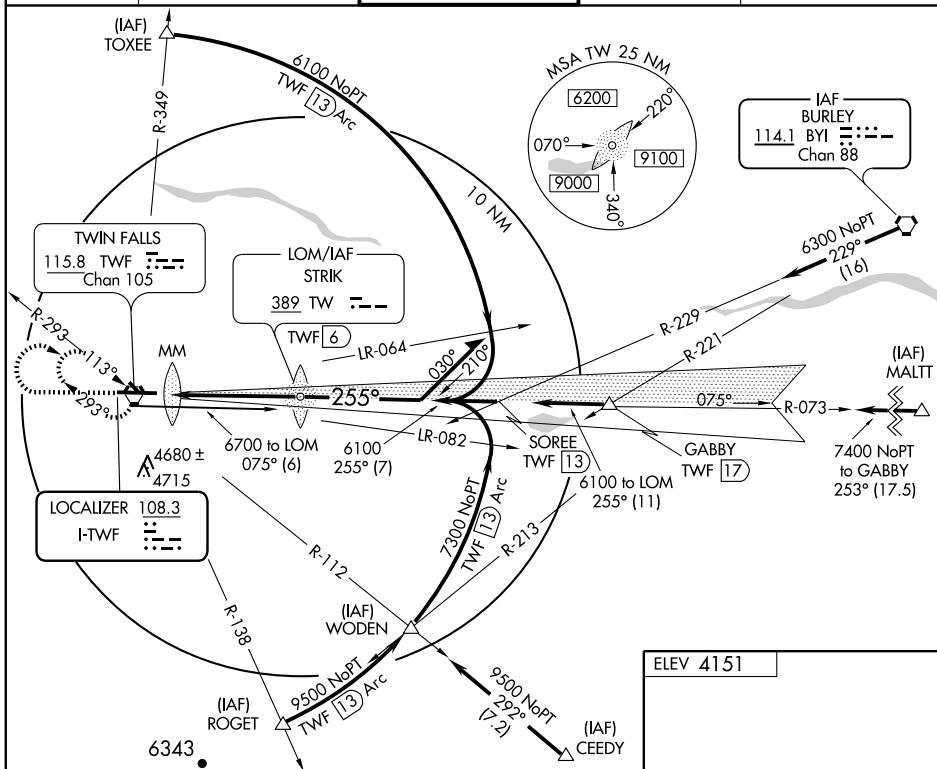
118.2 (CTAF) 0 317.5

GND CON

121.7

UNICOM

122.95



5000



6700

TWF
115.8

Remain within 15 NM

TWF
0.8

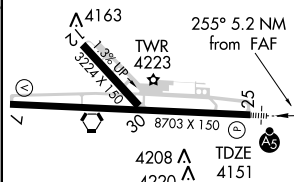
MM

0.5

4.7 NM

GS 3.00°
TCH 55

ELEV 4151



REIL Rwy 7

HIRL Rwy 7-25

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

- MALSR

MISSED APPROACH: Climb to 4800 then climbing right turn to 6000 direct STRIK LOM and hold.

10 NM

TWIN FALLS
115.8 TWF Chan 105

4369 ± Δ
4715 Δ

7200 to STRIK
073° (6)

LOM/IAF
STRIK
389 TW Chan 6

255°

075°

030°

210°

6000
255° (11)

(IF)
GABBY
TW 17

R-221

7000 NoPT
221°
(17.4)

4930 ± Δ

7400 NoPT
253°
(17.5)

R-073

(IAF)
MALTBY

10 NM

25 NM

MSA TW

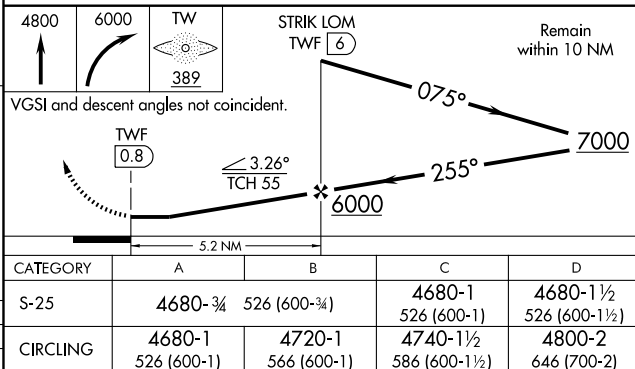
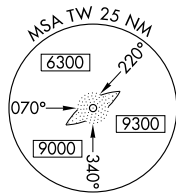
IAF BURLEY
114.1 BYI Chan 88

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 7

HIRL Rwy 7-25

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44



WAAS CH 40211 W07A	APP CRS 075°	Rwy Idg TDZE Apt Elev	8703 4149 4154
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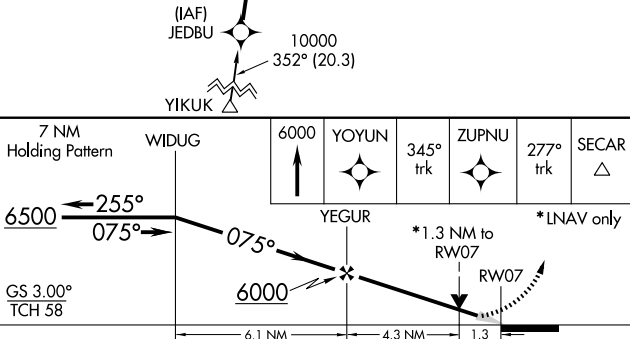
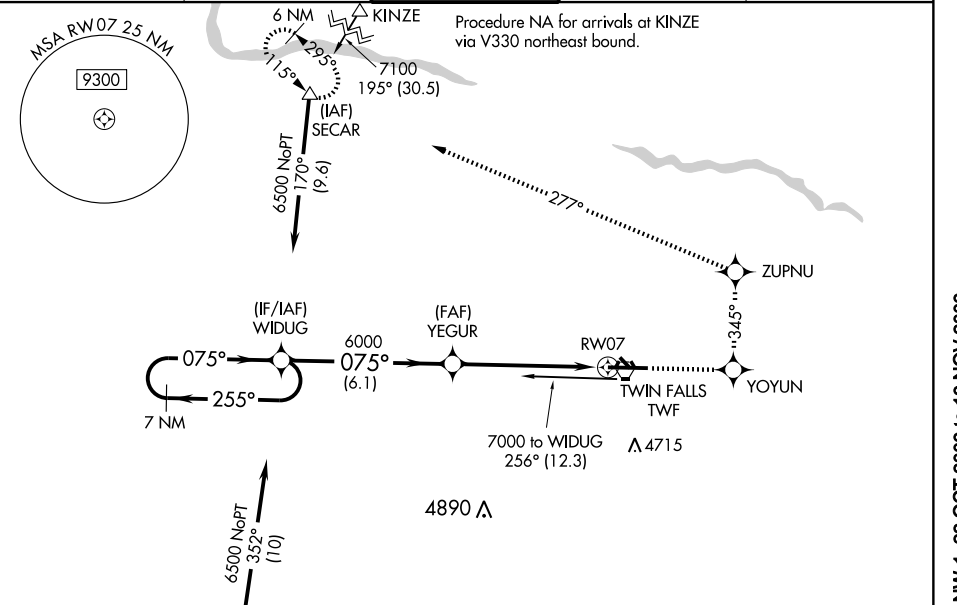
Baro-VNAV NA when using Jerome altimeter setting.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA.

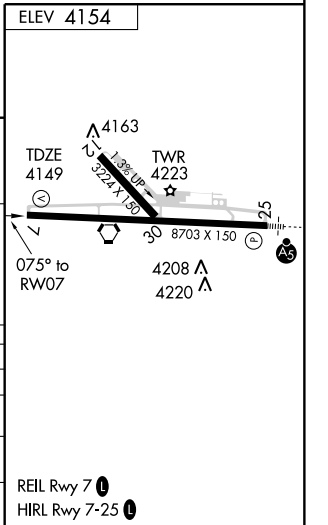
When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and increase LPV and LNAV/VNAV all Cats, and LNAV Cats C and D visibility ¼ mile. VDP NA when using Jerome altimeter setting.

MISSED APPROACH: Climb to 6000 direct YOYUN and via 345° track to ZUPNU and via 277° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON* 126.7 353.75	TWIN FALLS TOWER* 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4399-3/4 250 (300-3/4)			
LNAV/VNAV DA	4668-13/4 519 (600-13/4)			
LNAV MDA	4620-1	471 (500-1)	4620-1 1/4 471 (500-1 1/4)	4620-1 1/2 471 (500-1 1/2)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1 1/2 586 (600-1 1/2)	4800-2 646 (700-2)



NW-1. 22 OCT 2009 to 19 NOV 2009

WAAS
CH **56311**
W25A

APP CRS
255°

Rwy Idg
TDZE
Apt Elev

8703
4154
4154

Baro-VNAV NA when using Jerome altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase LNAV visibility Cat D to 1 mile. When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and all visibilities ¾ mile. When using Jerome altimeter setting, inoperative table does not apply. VDP NA when using Jerome altimeter setting.

MALSR

MISSED APPROACH: Climb to 6000 direct UCUVU and via 301° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON * 126.7 353.75	TWIN FALLS TOWER * 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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MISSED APCH FIX

MSA RW 25 25 NM

ELEV 4154

6000	UCUVU	301° trk	SECAR				
*LNAV only		*1.1 NM to RW25					
CATEGORY	A	B	C	D			
LPV DA	4354-½		200 (200-½)				
LNAV/VNAV DA	4531-¾		377 (400-¾)				
LNAV MDA	4560-½	406 (500-½)	4560-¾	406 (500-¾)	4560-1	406 (500-1)	
CIRCLING	4680-1	4720-1	4740-1½	4800-2	4646 (700-2)		

NW-1. 22 OCT 2009 to 19 NOV 2009

SNAKO ONE DEPARTURE

GND CON

121.7

TWIN FALLS TOWER*

118.2 317.5

TWIN FALLS DEP CON*

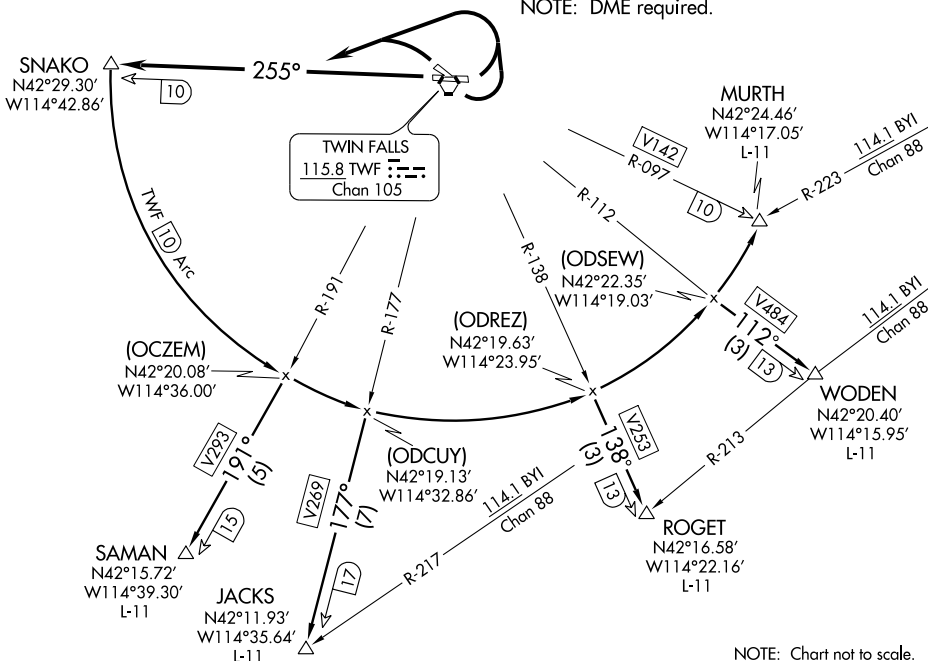
126.7 353.75

ASOS 135.025

NOTE: ROGET transition requires a minimum climb of 290' per NM to 7600'.

NOTE: MURTH transition requires a minimum climb of 210' per NM to 10500'.

NOTE: DME required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb runway heading, thence. . .TAKE-OFF RUNWAYS 7, 30, 12: Climbing left turn, thence. . .

. . . intercept and proceed via TWF R-255 to SNAKO DME Fix, thence via (assigned transition).

JACKS TRANSITION (SNAKO1.JACKS): From over SNAKO DME Fix via 10 DME Arc and V269 to JACKS INT. Thence via (assigned route).MURTH TRANSITION (SNAKO1.MURTH): From over SNAKO DME Fix via 10 DME Arc and V142 to MURTH INT. Thence via (assigned route).ROGET TRANSITION (SNAKO1.ROGET): From over SNAKO DME Fix via 10 DME Arc and V253 to ROGET INT. Thence via (assigned route).SAMAN TRANSITION (SNAKO1.SAMAN): From over SNAKO DME Fix via 10 DME Arc and V293 to SAMAN INT. Thence via (assigned route).WODEN TRANSITION (SNAKO1.WODEN): From over SNAKO DME Fix via 10 DME Arc and V484 to WODEN INT. Thence via (assigned route).

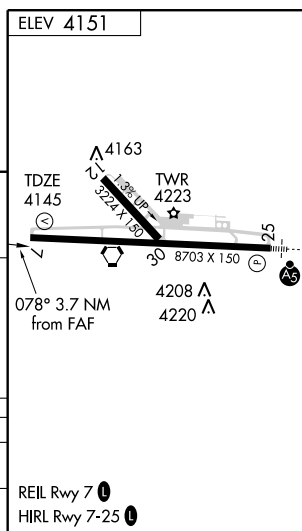
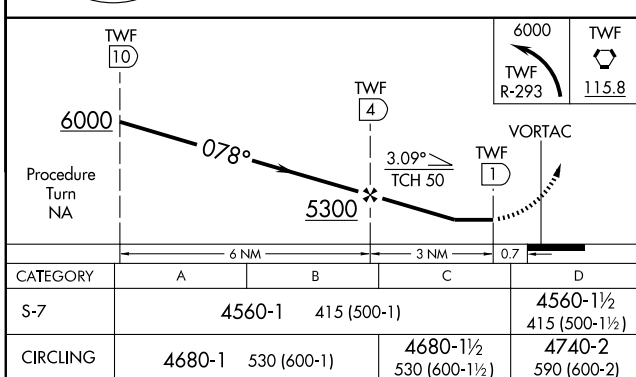
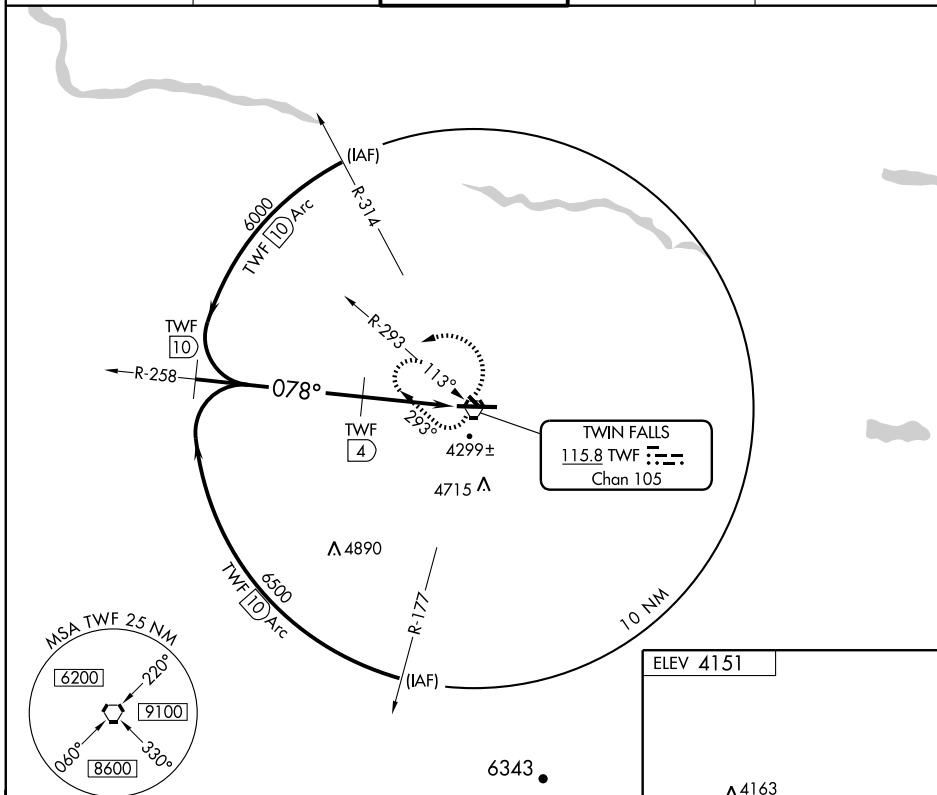
VOR/DME RWY 7

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

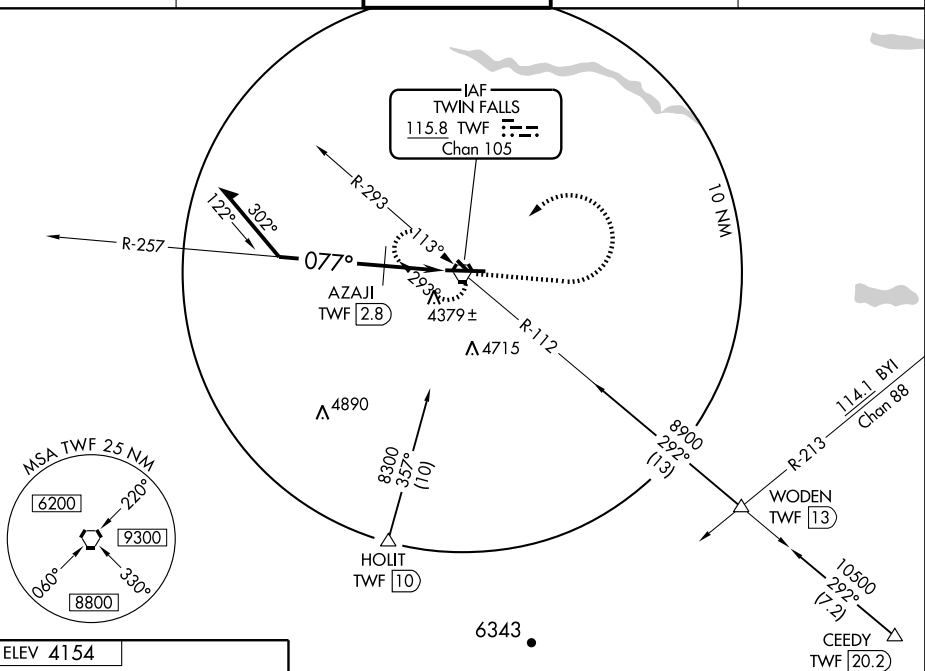
VORTAC TWF	APP CRS	Rwy Idg	8703
115.8	078°	TDZE	4145
Chan 105		Apt Elev	4151

MISSED APPROACH: Climbing left turn to 6000 on TWF R-293 within 10 NM, return to VORTAC and hold.

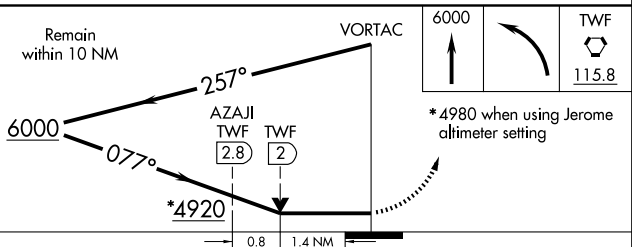
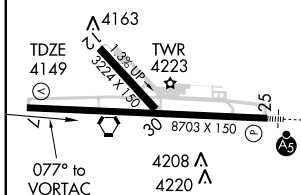
ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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MISSED APPROACH: Climb to 6000 then left turn direct TWF VORTAC and hold.

UNICOM
122.95

ELEV 4154



CATEGORY	A	B	C	D
S-7	4920-1 771 (800-1)	4920-1¼ 771 (800-1¼)	4920-2 ¼ 771 (800-2¼)	4920-2 ½ 771 (800-2½)
CIRCLING	4920-1 766 (800-1)	4920-1¼ 766 (800-1¼)	4920-2 ¼ 766 (800-2¼)	4920-2 ½ 766 (800-2½)
AZAJI FIX MINIMUMS				
S-7	4640-1	491 (500-1)	4640-1¼ 491 (500-1¼)	4640-1½ 491 (500-1½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1½ 586 (600-1½)	4800-2 646 (700-2)

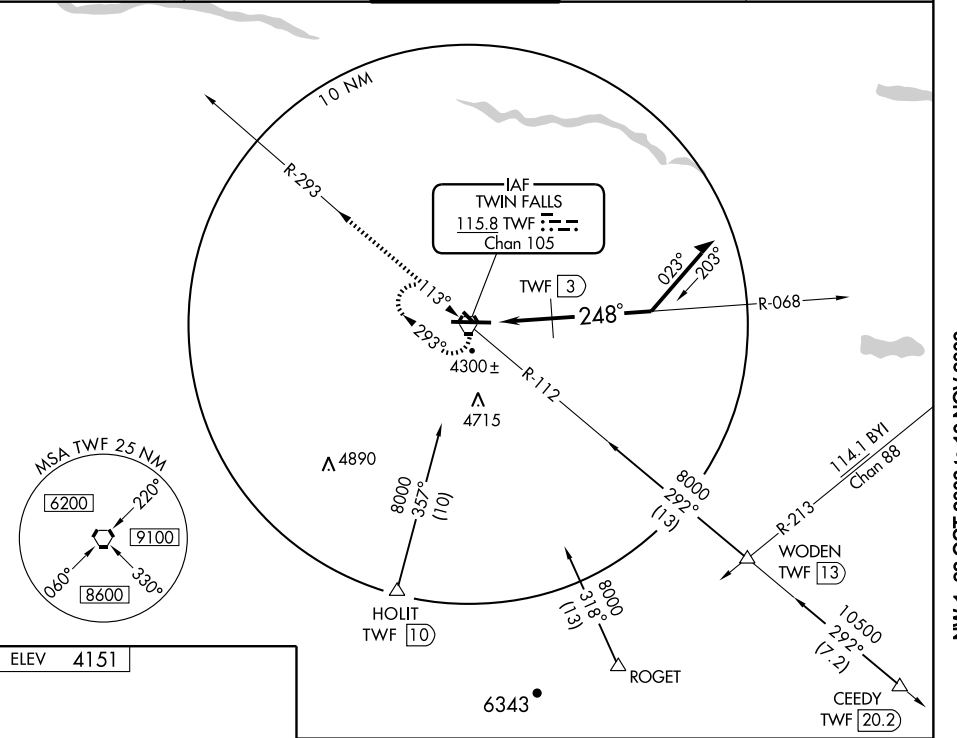
REIL Rwy 7 **L**HIRL Rwy 7-25 **L**

VORTAC TWF	APP CRS	Rwy Idg	8703
115.8	248°	TDZE	4150
Chan 105		Apt Elev	4151

MALSR

MISSED APPROACH: Climbing right turn to 6000 on R-293
TWF VORTAC within 10 NM, return to VORTAC and hold.

ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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ELEV 4151

4163

1.8% UP

3222 X 50

8703 X 150

4208

4220

TDZE 4150

248° to VORTAC

AS

REIL Rwy 7

HIRL Rwy 7-25

6000

TWF

TWF 115.8

VORTAC

068°

248°

4620

6000

Remain within 10 NM

3 NM

CATEGORY	A	B	C	D
S-25	4620-½	470 (500-½)	4620-¾ 470 (500-¾)	4620-1¼ 470 (500-1¼)
CIRCLING	4680-1	530 (600-1)	4680-1½ 530 (600-1½)	4740-2 590 (600-2)
DME MINIMA				
S-25	4560-½ 410 (500-½)			4560-1 410 (500-1)

NW-1. 22 OCT 2009 to 19 NOV 2009

▼

NA

DME/DME RNP-0.3 NA. Procedure NA at night.
Use Ontario altimeter setting; when not received, use Boise altimeter setting and increase all MDAs 160 feet.

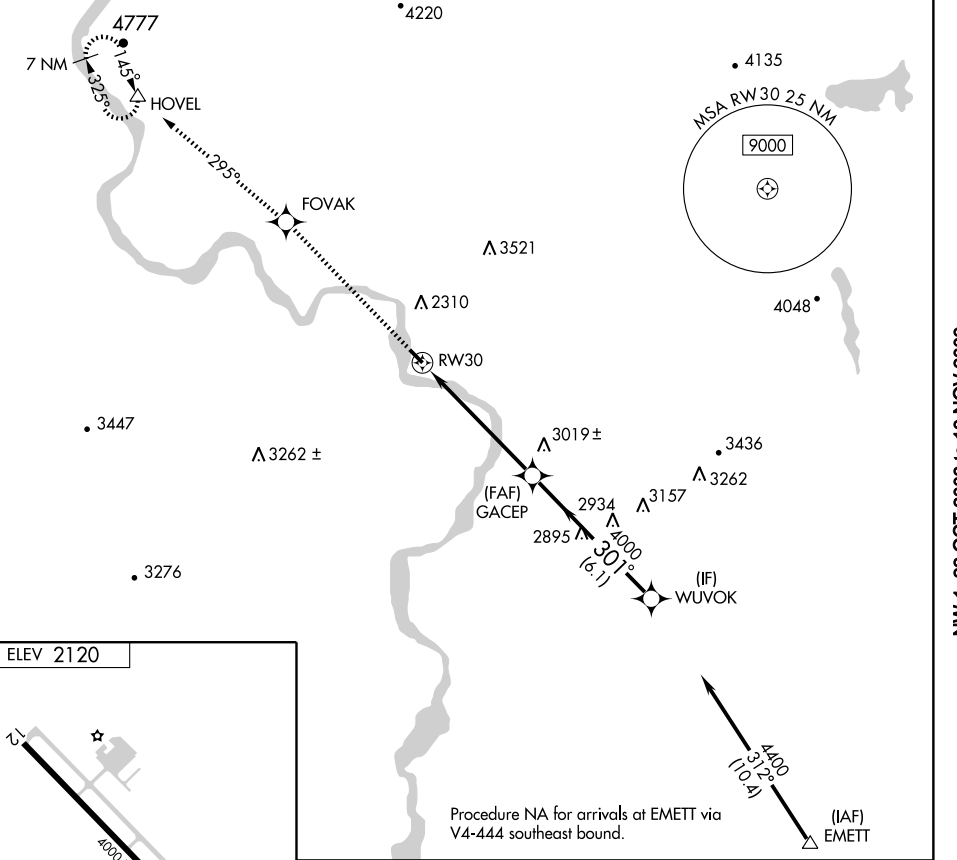
MISSED APPROACH: Climb to 9000 direct FOVAK and via 295° track to HOVEL and hold, continue climb-in-hold to 9000.

SALT LAKE CENTER

128.05 387.15

UNICOM

122.8 (CTAF) **1**



INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2½.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2¾.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Category A, 1100-4; Categories B,C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
VOR/DME Rwy 3
VOR Rwy 21

NA when local weather not available.

Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¾**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR or GPS Rwy 7¹**
VOR or GPS Rwy 25²

¹Category D, 800-2¾.

²Categories A,B, 1000-2; Categories C,D,
1000-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷
 VOR-A⁸
 VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

LEWISTON, ID

LEWISTON-NEZ PERCE

COUNTY **ILS Rwy 26¹²**

RNAV (GPS) Rwy 8³

RNAV (GPS) Rwy 12³

RNAV (GPS) Rwy 26³

VOR Rwy 8⁴

VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI **RNAV (GPS) Rwy 7**

VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**

VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D, 2200-3.

MCMINNVILLE, OR

MCMINNVILLE MUNI **ILS or LOC Rwy 22**

RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-

MEDFORD **ILS or LOC/DME Rwy 14¹²**

LOC/DME BC-B²³

RNAV (GPS)-D³

RNAV (GPS) Rwy 14⁴

VOR-A⁵

VOR/DME-C³

VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**

RNAV (GPS) Y Rwy 11²³

RNAV (RNP) Z Rwy 11², 800-2½

VOR/DME or GPS-A, 2000-3

VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**

NDB Rwy 32R²

RNAV (GPS) Rwy 4¹

RNAV (GPS) Rwy 14L¹

RNAV (GPS) Rwy 22¹

VOR Rwy 4²

VOR -1 Rwy 14L²

VOR -3 Rwy 14L²

VOR Rwy 22²

VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**

NA except for operators with approved weather reporting service.

Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON

RGNL **ILS or LOC Rwy 4¹**

NDB or GPS Rwy 4²

VOR or GPS-A³

VOR/DME or GPS-B⁴

VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½, Category D, 1000-3. LOC, Category C, 900-2½, Category D, 1000-3.

²Category C, 900-2½; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**

NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**

RNAV (GPS) Rwy 17²

RNAV (GPS) Rwy 35²

VOR-A²³

VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
ONTARIO, OR
ONTARIO MUNI **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

PASCO, WA
TRI-CITIES **ILS or LOC Rwy 21R¹²**
RNAV (GPS) Rwy 3L
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 21R
RNAV (GPS) Rwy 30
VOR Rwy 21R³
VOR/DME Rwy 30
NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
EASTERN OREGON RGNL AT
PENDLETON **ILS or LOC/DME Rwy 25¹**
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 29
VOR Rwy 7
NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
PINEDALE/RALPH WENZ
FIELD **NDB-A**
NA when local weather not available.
Category C, 800-2¼; Category D, 800-2½.

POCATELLO, ID
POCATELLO RGNL **ILS or LOC Rwy 21¹**
RNAV (GPS) Rwy 3²
RNAV (GPS) Rwy 21²
¹NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
WILLIAM R
FAIRCHILD INTL **ILS or LOC Rwy 8**
RNAV (GPS) Rwy 8¹
RNAV (GPS) Rwy 26
NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME **ALTERNATE MINIMUMS**
PORTLAND, OR
PORTLAND INTL **ILS or LOC Rwy 10L¹**
ILS or LOC Rwy 10R²
ILS or LOC Rwy 28L³
ILS or LOC Rwy 28R⁴
LOC/DME Rwy 21⁵
RNAV (GPS) Rwy 10L⁵
RNAV (GPS) Rwy 10R⁶
RNAV (GPS) Rwy 12⁷
RNAV (GPS) Rwy 28L⁸
RNAV (GPS) Rwy 28R⁹
VOR/DME Rwy 21⁵
VOR-A⁹
VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. **ILS or LOC Rwy 12¹**
RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE **NDB or GPS-A**
Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
PULLMAN/MOSCOW
MUNI **RNAV (GPS) Rwy 5,800-2¼**

RAWLINS, WY
RAWLINS MUNI/
HARVEY FIELD **NDB or GPS-A¹**
VOR or GPS Rwy 22,1000-3²
¹Category D, 1000-3.
²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16¹
RNAV (GPS) Z Rwy 16²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

²Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON

COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER

COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

McNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL

AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY

INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;

Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN

COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.

Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2½.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

⁴Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 16**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA - obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 34**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left
Rwys 10L, 10R, turn right. Climb on BOI R-214 within
20 NM to cross BOI VORTAC at or above MEA/MCA
for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min.
climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. All aircraft proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: All runways, cross departure
end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: All runways, climb direct
BURLEY (BYI) VOR/DME. Continue climb on R-305
within 10 miles to cross BYI VOR/DME: R-024 CW
R-054 at or above 5500; R-055 CW R-240 at or above
8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway,
513' left of centerline, 110' AGL/4195' MSL. Stack 2205'
from departure end of runway, 857' right of centerline,
79' AGL/4236' MSL. Elevator 4092' from departure end
of runway, 297' right of centerline, 133' AGL/4283' MSL.
Rwy 20, antenna 523' from departure end of runway, 338'
right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree
630' from departure end of runway, 521' right of
centerline, 41' AGL/4215' MSL. Grain elevator 3106'
from departure end of runway, 163' left of centerline,
137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a
min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or
std. with a min. climb of 245' per NM to 2300. **Rwy 22**,
1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right
heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB
to cross BVS at or above 4500. Aircraft departing on
BVS R-145 CW R-330 climb on course. All others
continue climbing in BVS holding pattern (NW, right
turns 113° inbound) to cross BVS at or above 6800
before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway,
426' left of centerline, 100' AGL/212' MSL. Light pole
1489' from departure end of runway, 136' left of
centerline 35' AGL/137' MSL. Bush 126' from departure
end of runway, 430' right of centerline, 20' AGL/101'
MSL. Building 2925' from departure end of runway, 130'
left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CWR-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****ORIG 09295 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

* Or standard with minimum climb of 430/NM to 500.

** Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3, 7**, turn left;

Rwys 21, 25, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.



HELENA, MT

HELENA RGNL (HLN)

ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions.

Rwy 23, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.

DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°: **Rwy 24**, climb runway heading.

All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL

DEPARTURE PROCEDURE: **All aircraft** departing IDA

R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.

NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL.

Rwy 17, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

**JEROME, ID**

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¼ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



**LAUREL, MT****LAUREL MUNI**TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.DEPARTURE PROCEDURE: **Rwy 22**, turn left.**All aircraft** climb direct BIL VORTAC.**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left

direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.**Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL.

Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.**Rwy 15**, use EYSE RNAV DEPARTURE.**LIVINGSTON, MT****MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.**MADRAS, OR****MADRAS MUNI (S33)****ORIG-A 09043 (FAA)**TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or . . .
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or . . .

. . . for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID**MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.**MC CHORD AFB (KTCM)****TACOMA, WA 09127**DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windssock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL.

Rwy 29, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 6 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. w/ min. climb of 270' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 7500 via heading 240 and PIH R-269 to SICOY/PIH 10 DME. **Rwys 17, 21**, climbing right turn to 7500 via PIH R-269 to SICOY/PIH 10 DME. **Rwy 35**, climbing left turn to 7500 via heading 230 and PIH R-269 to SICOY/PIH 10 DME.

DME REQUIRED.

NOTE: **Rwy 3**, trees beginning 3132' from departure end of runway, 562' left of centerline, up to 100' AGL/4549' MSL. Rod on obstruction light 978' from departure end of runway, 759' right of centerline, 37' AGL/4486' MSL.

Rwy 17, transmission tower 1.19 NM from departure end of runway, 2395' left of centerline, 124' AGL/4693' MSL. Trees beginning 1.63 NM from departure end of runway, 2642' left of centerline, up to 100' AGL/4759' MSL. Fence 112' from departure end of runway, 416' right of centerline, 4' AGL/ 4453' MSL. Bush 30' from departure end of runway, 261' right of centerline, 6' AGL/4445' MSL. Fence 208' from departure end of runway, 421' right of centerline, 10' AGL/4449' MSL. **Rwy 21**, antenna 543' from departure end of runway, 309' left of centerline, 17' AGL/4466' MSL. Obstruction light 543' from departure end of runway, 286' left of centerline, 13' AGL/ 4462' MSL. **Rwy 35**, electrical equipment 197' from departure end of runway, 248' left of centerline, 10' AGL/ 4454' MSL.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179' MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND, OR (CON'T)

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28, NA**.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKWR-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 6 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 400' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, Climb heading 154° to 700, then climbing right turn direct SEA VORTAC, then..., or for climb in visual conditions: cross Renton Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, then...,

Rwy 34, Climb heading 334° to 700, then climbing left turn direct SEA VORTAC then..., ...Climb in SEA VORTAC holding pattern (E, LT, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, Trees, towers, lights and blast shield beginning 286' from departure end of runway, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from departure end of runway, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from departure end of runway, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from departure end of runway, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMD T 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions.

Rwy 23, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7,20,25,34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25,30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25,30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to ZEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

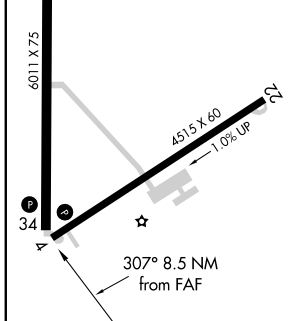
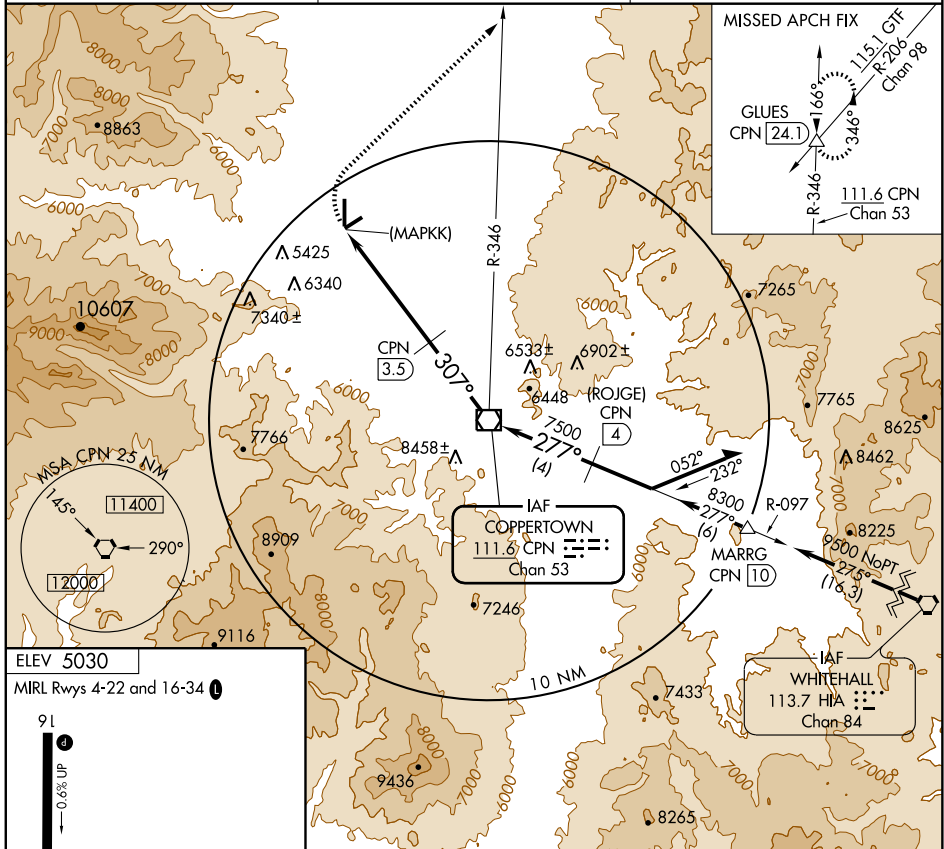
VOR/DME CPN 111.6 Chan 53	APP CRS 307°	Rwy Idg TDZE Apt Elev N/A N/A 5030
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VOR/DME or GPS-A

ANACONDA/ BOWMAN FIELD (3U3)

<p>▼ Use Butte (BTM) altimeter setting; when not received, procedure NA.</p> <p>▲ NA</p>	<p>MISSED APPROACH: Climbing right turn to 9200 via heading 030° to intercept CPN R-346 to GLUES and hold.</p>
--	--

AWOS-A 122.8 0	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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9200	CPN R-346 111.6	GLUES △	VOR/DME	097° (ROJGE) CPN [4]	Remain within 10 NM
(MAPKK) CPN [8.5]	CPN [3.5]	307° 6540	7500	277° 8300	9500
5 NM	3.5 NM	4 NM			
CATEGORY	A	B	C	D	
CIRCLING	6140-1¼ 1110 (1200-1¼)	6300-1½ 1270 (1300-1½)	6300-3 1270 (1300-3)	6540-3 1510 (1600-3)	

GPS RWY 31
BAKER MUNI (BHK)

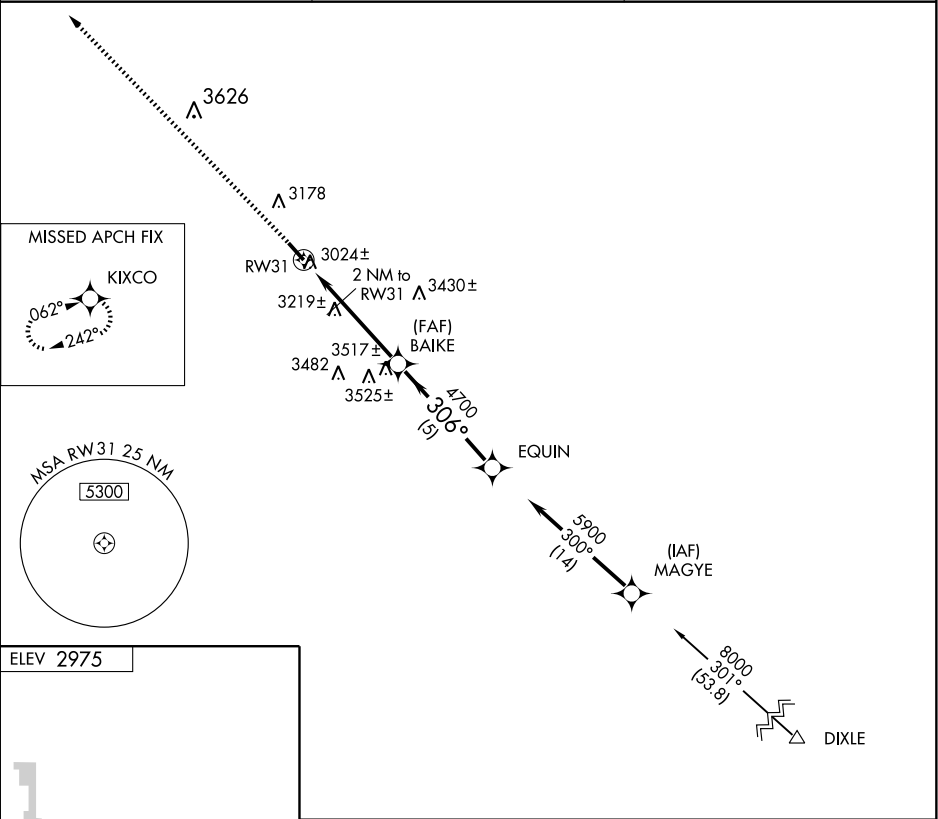
APP CRS	Rwy Idg	4898
306°	TDZE	2975
	Apt Elev	2975

▼

▲ NA

MISSED APPROACH: Climb to 6000 direct KIXCO WP and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
-----------------	----------------------------------	---------------



ELEV 2975

6000 KIXCO

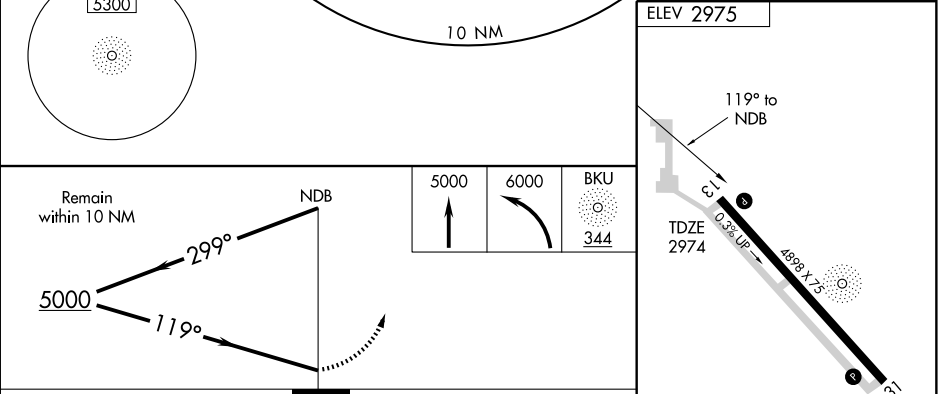
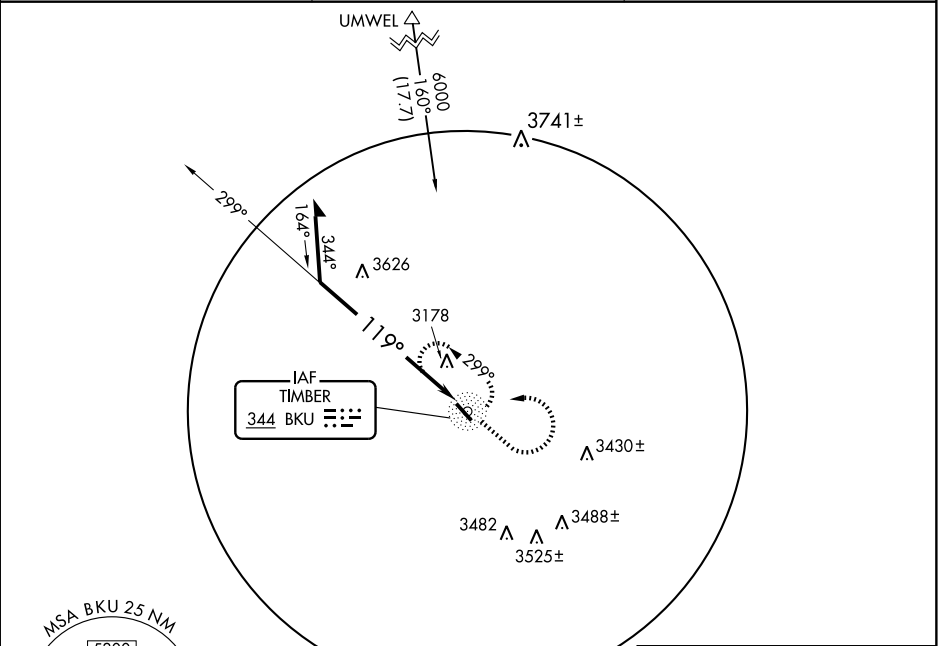
CATEGORY	A	B	C	D
S-31	3500-1	525 (600-1)	3500-1½ 525 (600-1½)	3500-1¾ 525 (600-1¾)
CIRCLING	3560-1	585 (600-1)	3560-1½ 585 (600-1½)	3560-2 585 (600-2)

NDB BKU 344	APP CRS 119°	Rwy Idg TDZE Apt Elev	4898 2974 2975
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NDB RWY 13
BAKER MUNI (BHK)

 	MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.
--	--

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9 
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CATEGORY	A	B	C	D
S-13	3980-1 ¼ 1006 (1100-1 ¼)	3980-1 ½ 1006 (1100-1 ½)	3980-3	1006 (1100-3)
CIRCLING	3980-1 ¼ 1005 (1100-1 ¼)	3980-1 ½ 1005 (1100-1 ½)	3980-3	1005 (1100-3)

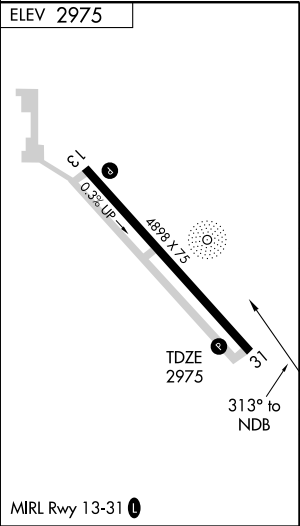
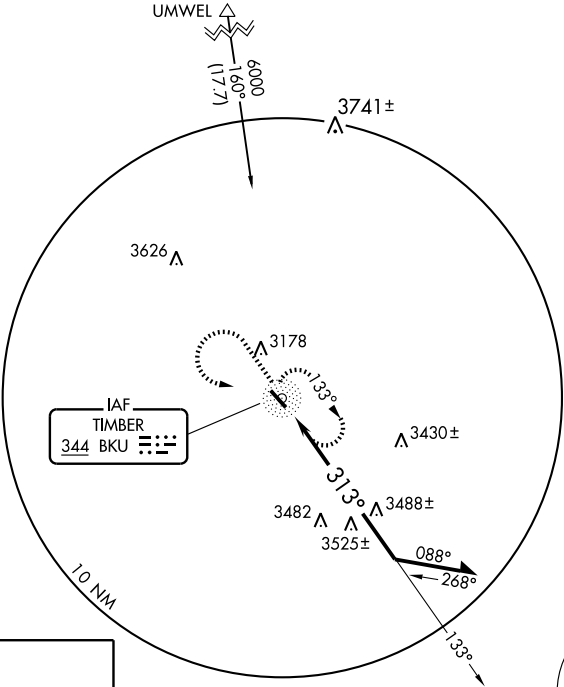
MIRL Rwy 13-31 





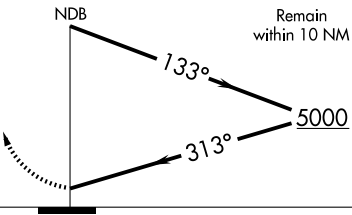
NDB RWY 31
BAKER MUNI (BHK)

NDB BKU 344	APP CRS 313°	Rwy Idg TDZE Apt Elev	4898 2975 2975
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MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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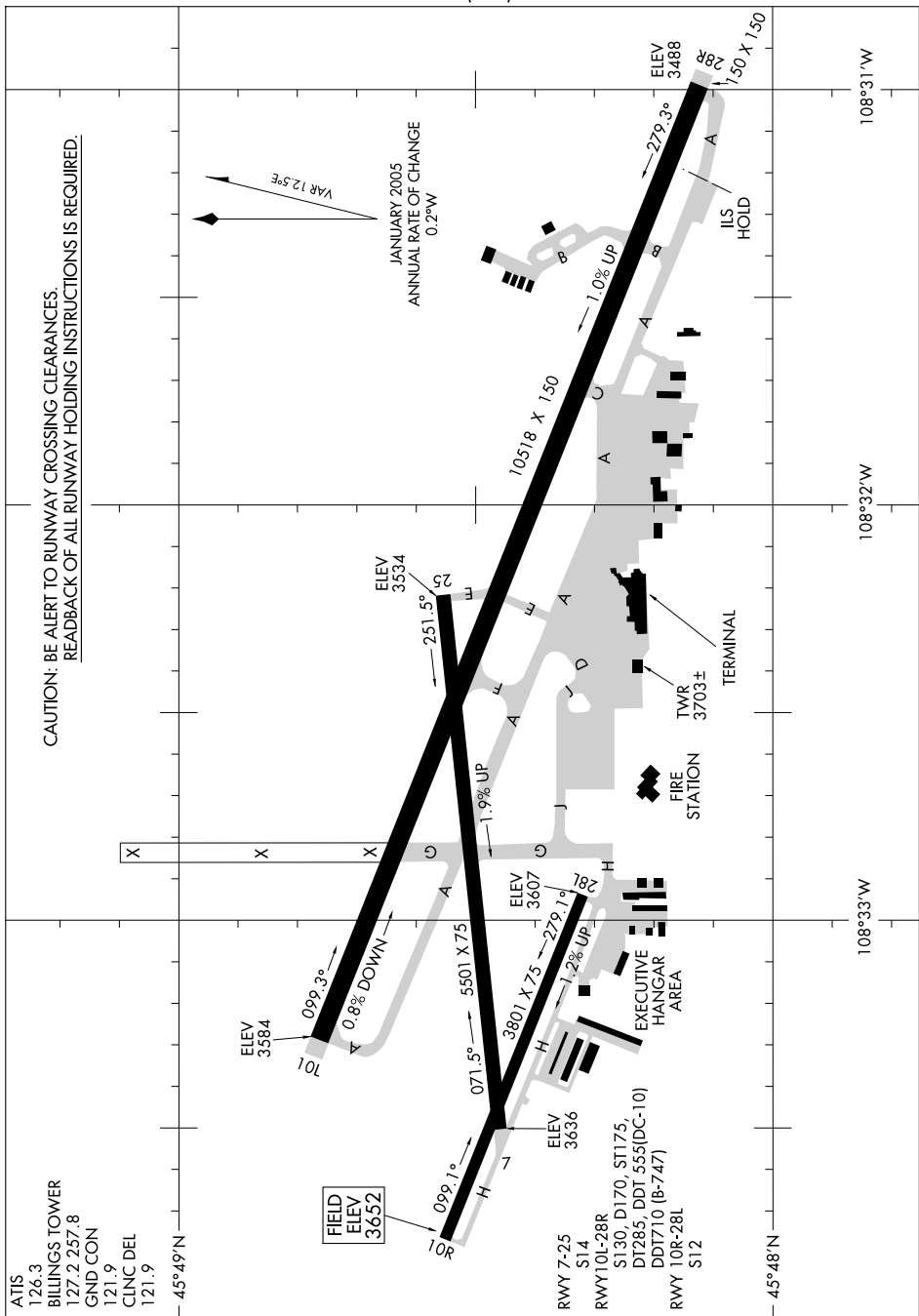


5000	6000	BKU 344			Remain within 10 NM	
						
CATEGORY	A	B	C	D		
S-31	3880-1 ¼	905 (1000-1 ¼)	3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)		
CIRCLING	3880-1 ¼	905 (1000-1 ¼)	3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)		

AIRPORT DIAGRAM

AL-48 (FAA)

BILLINGS LOGAN INTL (BIL)
BILLINGS, MONTANA



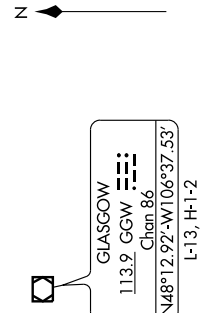
NW-1, 22 OCT 2009 to 19 NOV 2009

BILLINGS TWO DEPARTURE

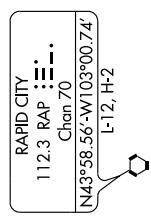
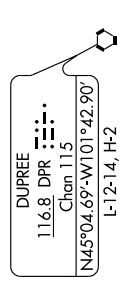
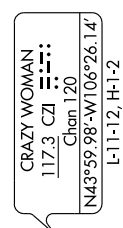
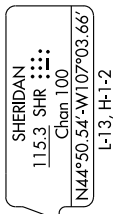
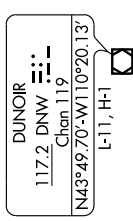
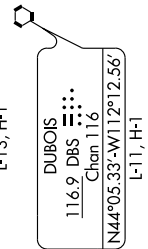
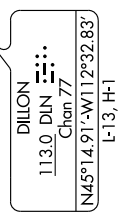
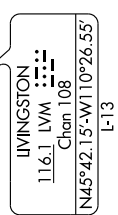
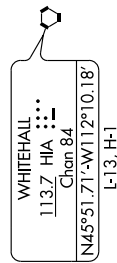
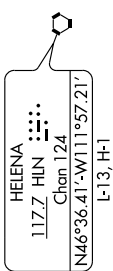
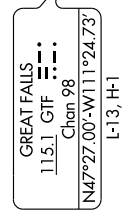
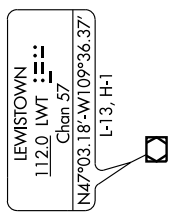
SL-48 (FAA)

BILLINGS LOGAN INTL (BIL)
BILLINGS, MONTANA

ATS 126.3
CLNC DEL
121.9
GND CON
121.9
BILLINGS DEP CON
120.5



NOTE: Takeoff on Runways 7, 10R, and 10L requires a minimum climb of 260 feet per NM to 4500 feet.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly assigned heading for vectors to assigned fix/route. Maintain 12,000 feet or assigned lower altitude. Expect clearance to filed altitude/flight level within 40 NM of BIL VORTAC.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure, fly last assigned heading until reaching 7000 feet. Proceed direct BIL VORTAC, then via last routing cleared and climb to filed altitude.

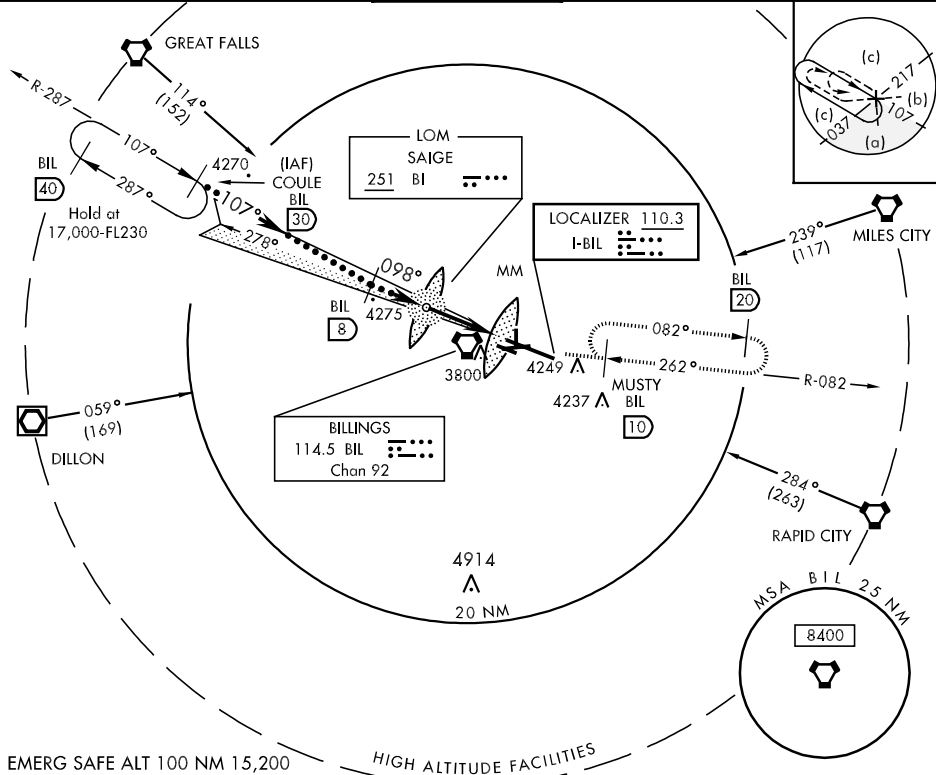
LOCALIZER I-BIL
110.3APCH CRS
098°Rwy Idg **10,518**
TDZE **3584**
Arpt Elev **3652**

JAL-48 [USAF]

BILLINGS LOGAN INTL (KBIL)

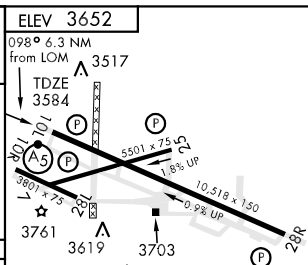
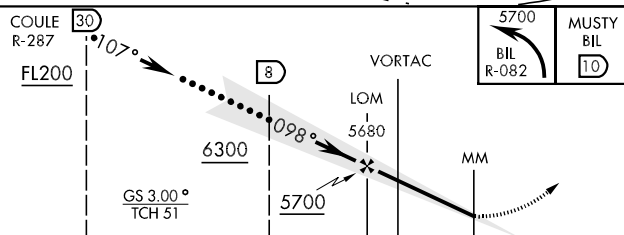


MISSED APPROACH: Climb to 5700 via BIL R-082 to MUSTY/10 DME and hold.

ATIS
126.3BILLINGS APP CON
120.5 284.6BILLINGS TOWER
127.2 257.8GND CON
121.9CLNC DEL
121.9

EMERG SAFE ALT 100 NM 15,200

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-ILS 10L	3784/24	200 (200-½)	
S-LOC 10L	4100/50 516 (500-1)	4100/60 516 (500-1¼)	
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

REIL Rwy 25 and 28R	
HIRL Rwy 10L-28R	
MIRL Rwy 7-25 and 10R-28L	
FAF to MAP 6.3 NM	
Knots	120 140 160 180 200
Min:Sec	3:09 2:42 2:22 2:06 1:53

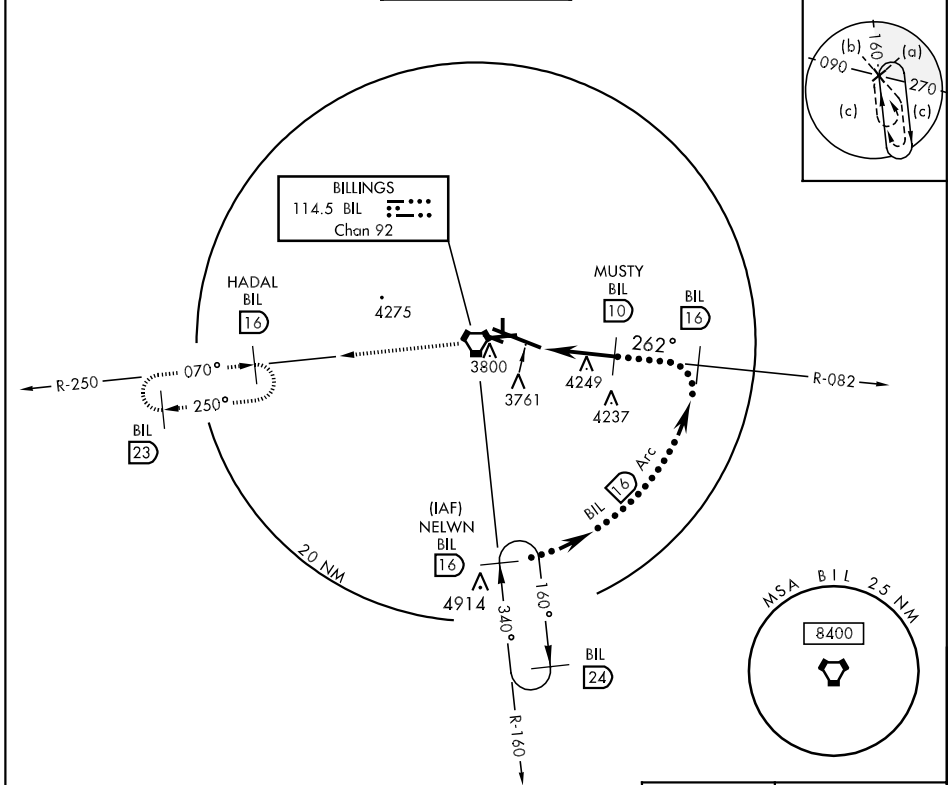
BILLINGS 114.5 Chan 92	APCH CRS 262°	Rwy Idg 10,518 TDZE 3517 Arpt Elev 3652
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JAL-48 [USAF]

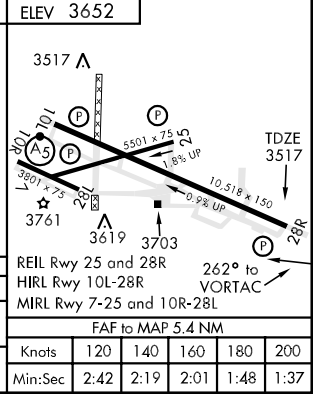
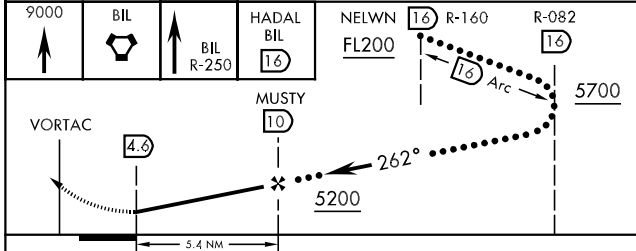
BILLINGS LOGAN INTL (KBIL)

▼ MISSED APPROACH: Climb to 9000 direct BIL VORTAC then via R-250 to HADAL/16 DME and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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EMERG SAFE ALT 100 NM 15,200



CATEGORY	C	D	E
S-28R	3940-1¼ 423 (300-1¼)		3940-1½ 423 (300-1½)
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

NW-1, 22 OCT 2009 to 19 NOV 2009

MISSED APPROACH: Climb to 4300 then climbing left turn to 6000 direct BIL VORTAC and hold.

CLNC DEL
121.9

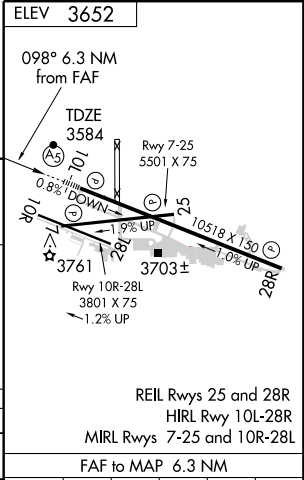
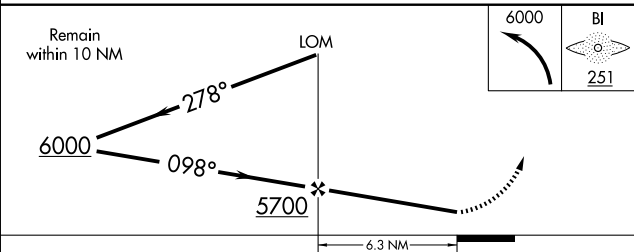
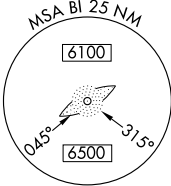
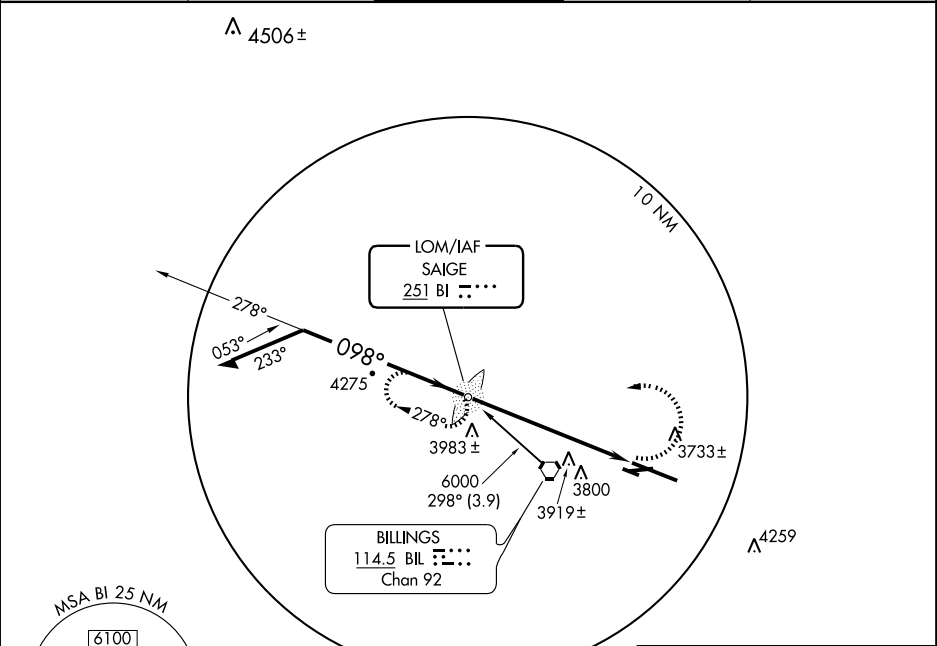
NW-1. 22 OCT 2009 to 19 NOV 2009

LOM BI 251	APP CRS 098°	Rwy Idg TDZE Apt Elev	10518 3584 3652
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NDB RWY 10L
BILLINGS LOGAN INTL (BIL)

	MALSR 	MISSED APPROACH: Climbing left turn to 6000 direct Saige LOM and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
S-10L	4300/40 716 (700-¾)		4300-1½ 716 (700-1½)	4300-2 716 (700-2)
CIRCLING	4300-1 648 (700-1)		4300-2 648 (700-2)	4300-2¼ 648 (700-2¼)

REIL Rwy 25 and 28R					
HIRL Rwy 10L-28R					
MIRL Rwy 7-25 and 10R-28L					
FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

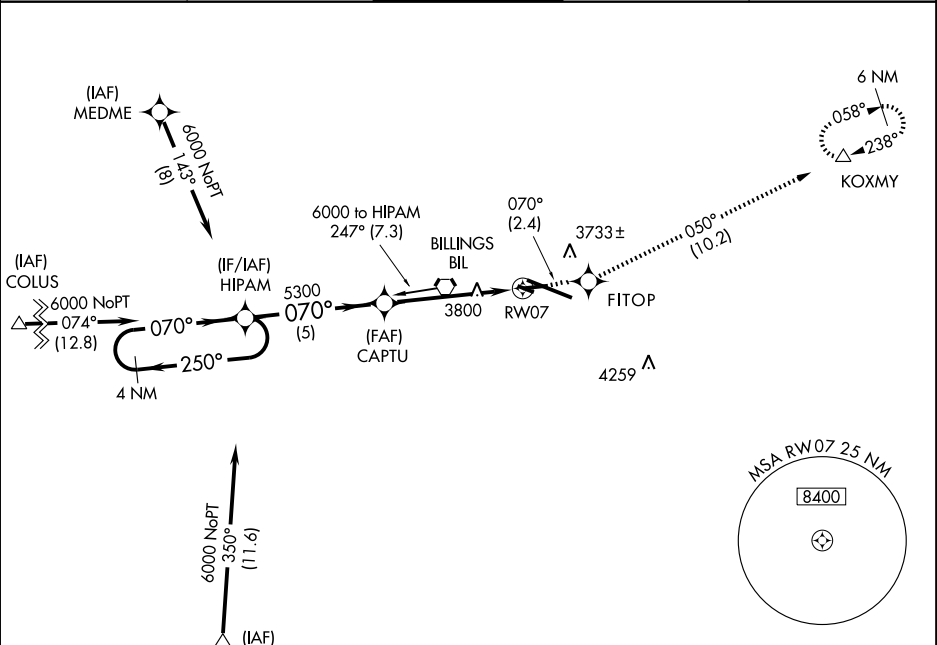
RNAV (GPS) RWY 7
BILLINGS LOGAN INTL (BIL)

APP CRS	Rwy Idg	5501
070°	TDZE	3636
	Apt Elev	3652

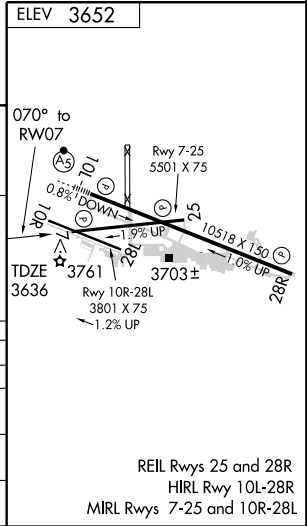
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 via 070° course to FITOP, then left turn via 050° course to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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5148 ± △				
VGSi and descent angles not coincident.				
4 NM Holding Pattern				
6000 ← 250° 070° →				
GS 3.00° TCH 55				
5300				
*LNAV only				
5 NM 3.3 NM 1.7 NM				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	4209-2 573 (600-2)			
LNAV MDA	4220-1 584 (600-1)	4220-1 ½ 584 (600-1 ½)	4220-1 ¾ 584 (600-1 ¾)	
CIRCLING	4220-1 568 (600-1)	4220-1 ½ 568 (600-1 ½)	4220-2 568 (600-2)	



WAAS CH 50122 W10A	APP CRS 098°	Rwy Idg 10518 TDZE 3584 Apt Elev 3652
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RNAV (GPS) RWY 10L

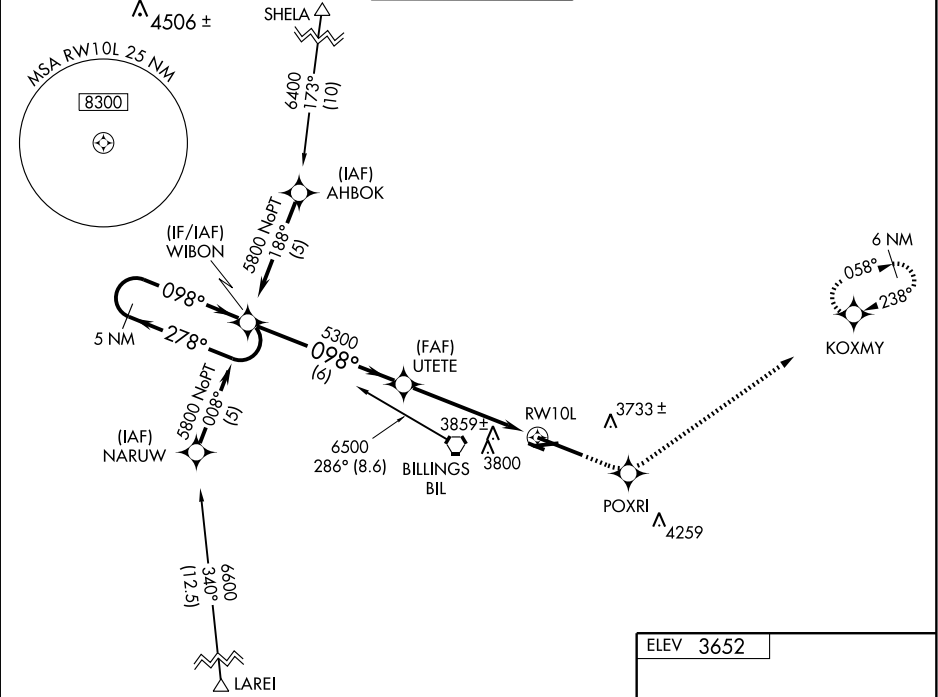
BILLINGS LOGAN INTL (BIL)

Baro-VNAV NA below -22°C (-7°F).
DME/DME RNP- 0.3 NA.
Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR increase LPV visibility to RVR 6000 all Cats.



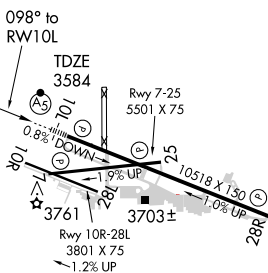
MISSED APPROACH: Climb to 6000 direct POXRI and via 041° track to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
WIBON				
5800 ← 278° 098° →				
UTETE				
5300				
* 1.5 NM to RW10L				
* LNAV only				
RW10L				
6 NM 3.7 NM 1.5				
CATEGORY	A	B	C	D
LPV DA	3950/40 366 (300-¾)			
LNAV/VNAV DA	4200-2¼ 616 (600-2¼)			
LNAV MDA	4120/24	536 (500-½)	4120/50 536 (500-1)	4120/60 536 (500-1¼)
CIRCLING	4200-2¼ 548 (600-2¼)			4220-2¼ 568 (600-2¼)

ELEV 3652



REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

APP CRS
250°

Rwy Idg	5501
TDZE	3586
Apt Elev	3652

RNAV (GPS) RWY 25

BILLINGS LOGAN INTL (BIL)



DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 5500 via 250° course to PESUE WP then right turn via 283° course to OXIVY and hold.

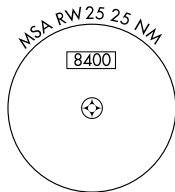
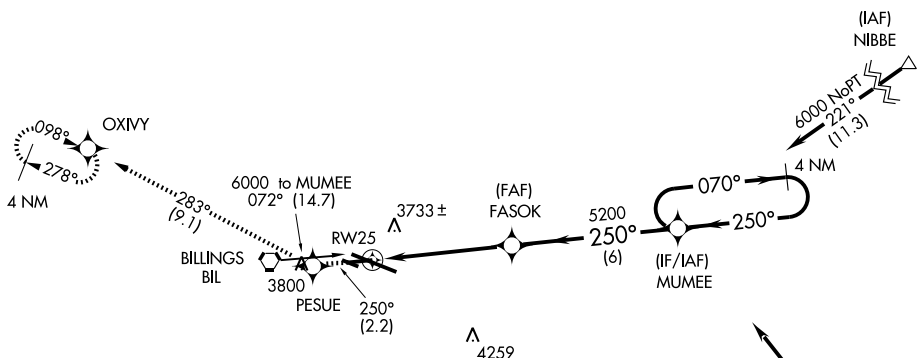
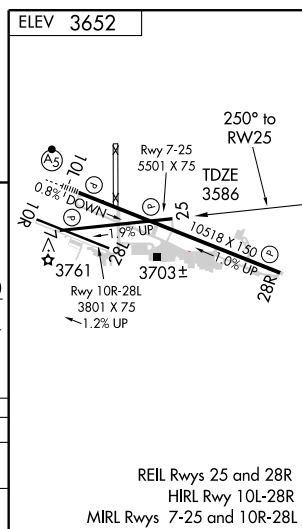
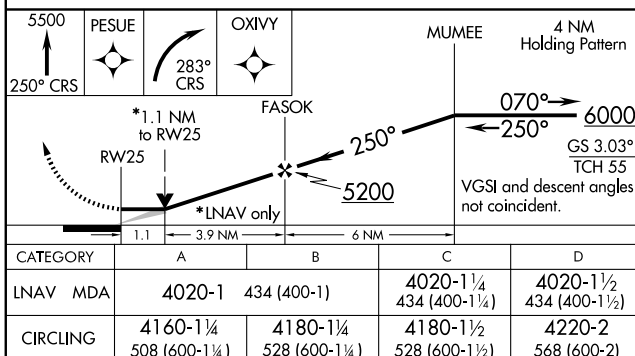
ATIS
126.3

BILLINGS APP CON
120.5 284.6

BILLINGS TOWER
127.2 257.8

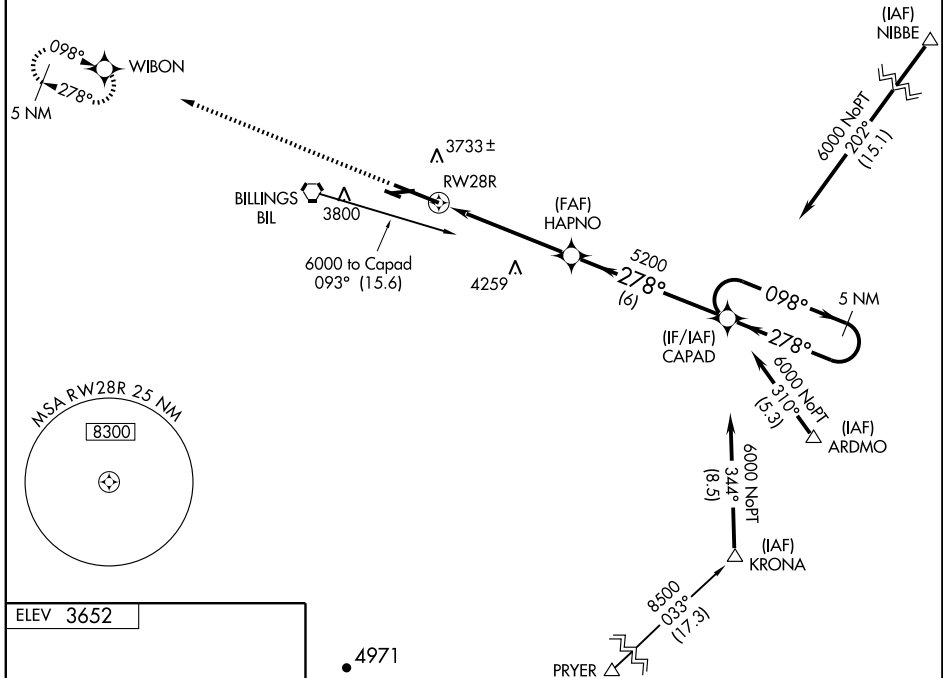
GND CON
121.9

CLNC DEL
121.9

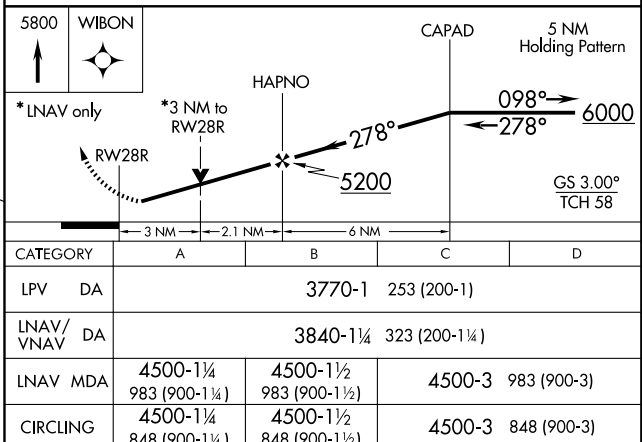
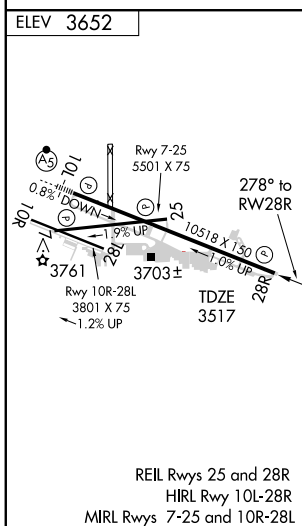
 $5148 \pm$ 

MISSED APPROACH: Climb to 5800 direct WIBON and hold.

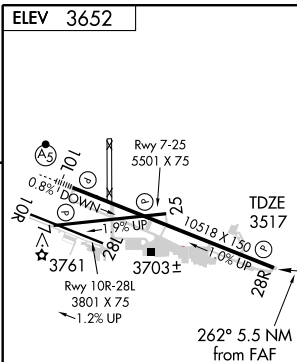
CLNC DEL
121.9



NW-1. 22 OCT 2009 to 19 NOV 2009



MISSED APPROACH: Climb to 6000 direct BIL VORTAC and hold.

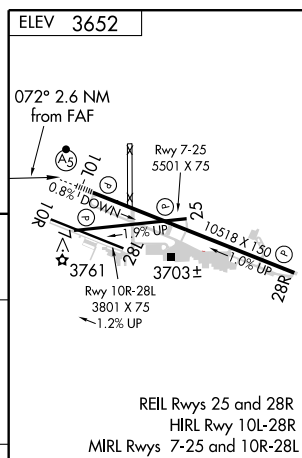
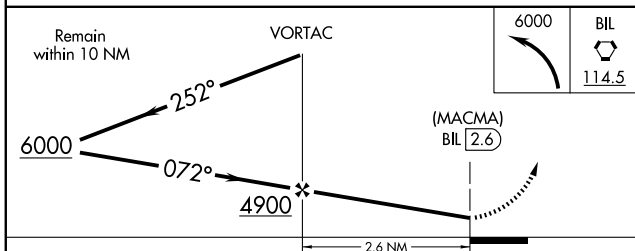
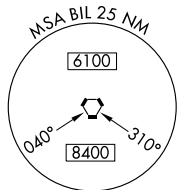
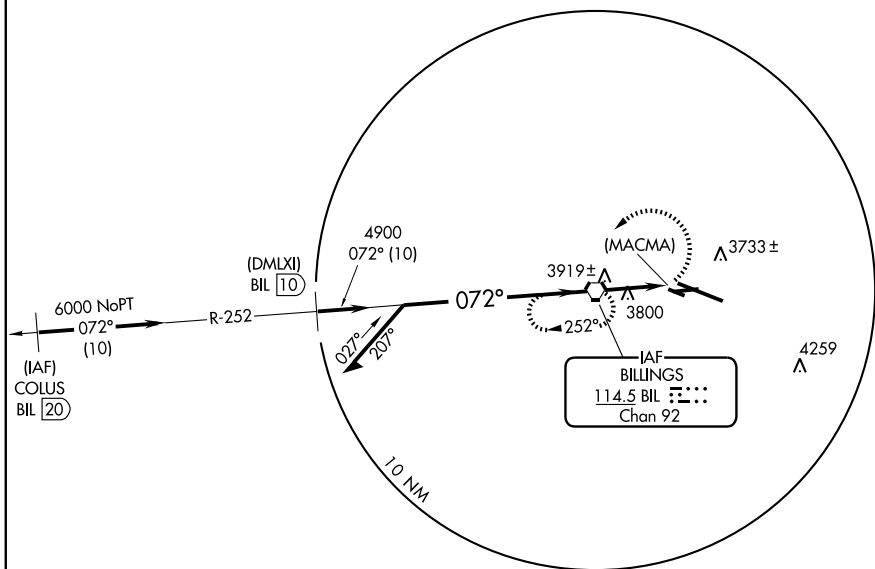
CLNC DEL
121.9

REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

VORTAC BIL 114.5 Chan 92	APP CRS 072°	Rwy Idg TDZE Apt Elev	N/A N/A 3652
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VOR or GPS-A
BILLINGS LOGAN INTL (BIL)

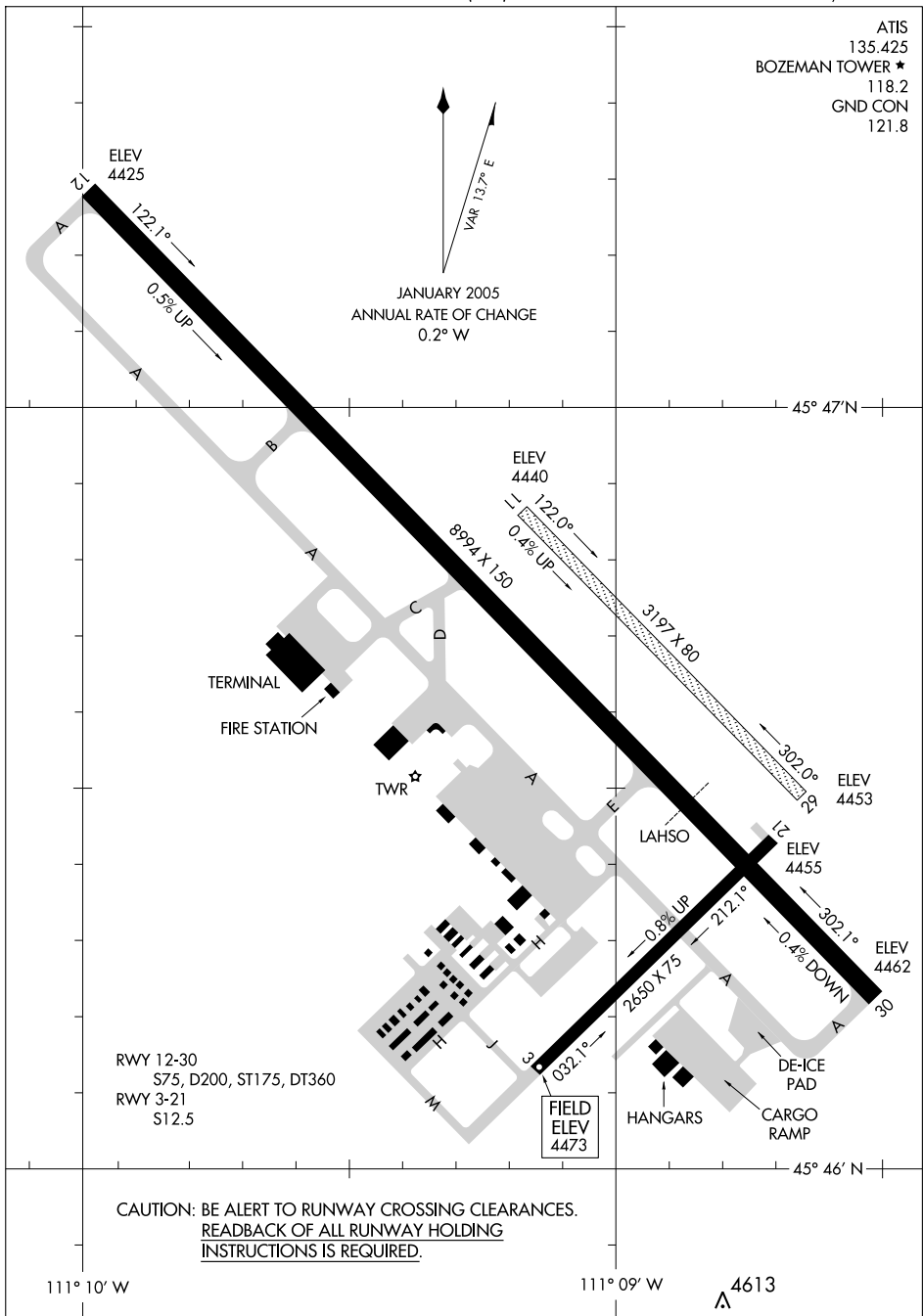
V		MISSED APPROACH: Climbing left turn to 6000 direct BIL VORTAC and hold.		
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9



CATEGORY	A	B	C	D	FAF to MAP 2.6 NM					
CIRCLING	4180-1	528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	Knots	60	90	120	150	180
					Min:Sec	2:36	1:44	1:18	1:02	0:52

AIRPORT DIAGRAM

AL-59 (FAA)

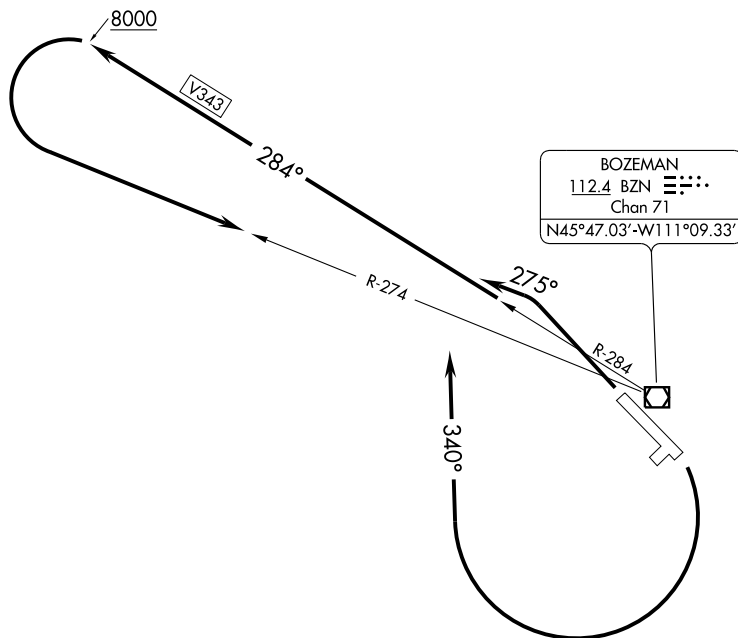
BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

NW-1. 22 OCT 2009 to 19 NOV 2009

BOZEMAN ONE DEPARTURE (OBSTACLE)

BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12, 30: Standard

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn heading 340° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn heading 275° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

LOC I-BZN	APP CRS	Rwy Idg	8994
109.3	118°	TDZE	4439
		Apt Elev	4474

⚠

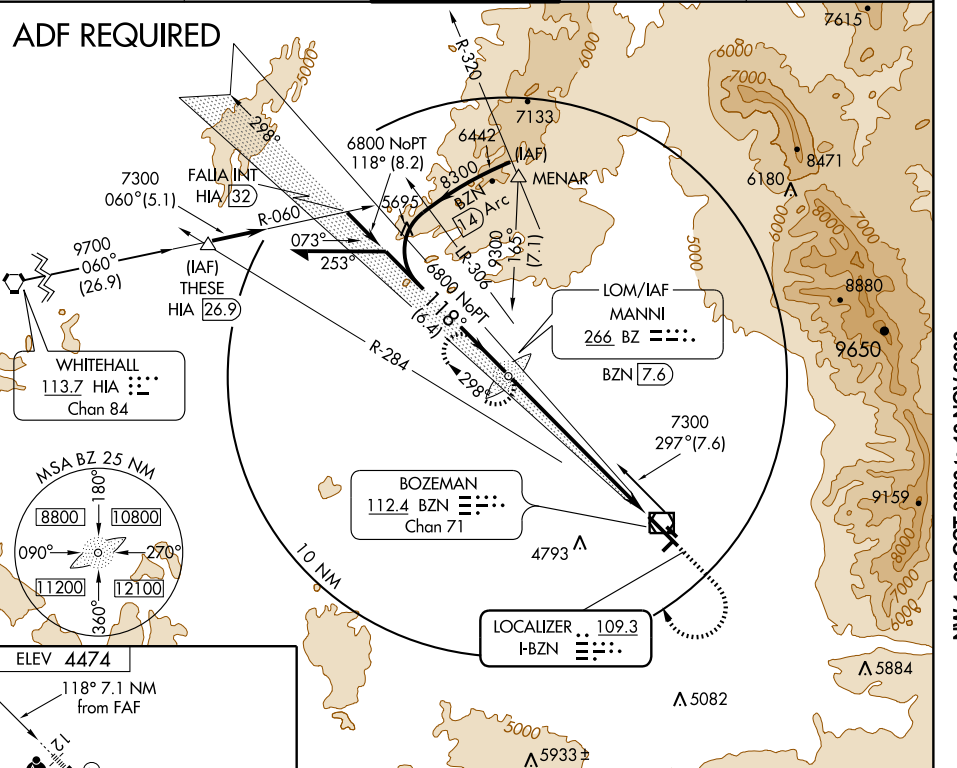
Increase S-LOC 12 Cat D. visibility ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 5000, then climbing right turn to 8000 direct BZ LOM and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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ADF REQUIRED



ELEV 4474

118° 7.1 NM from FAF

TDZE 4439

4609 TWR

4613

REIL Rwy 30

HIRL Rwy 12-30

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

Remain within 10 NM

7300

118°

298°

6779

BZ 7.6

5000

8000

BZ 266

GS 3.00° TCH 53

6800

7.1 NM

CATEGORY	A	B	C	D
S-ILS 12	4650-½ 211 (200-½)			
S-LOC 12	4760-½ 321 (300-½)			4760-¾ 321 (300-¾)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

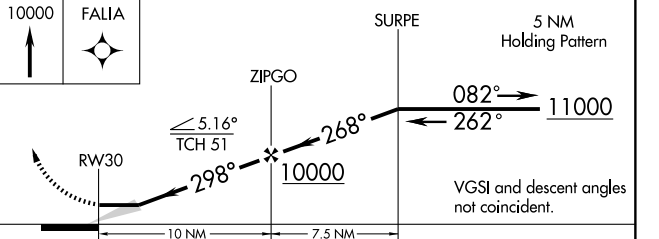
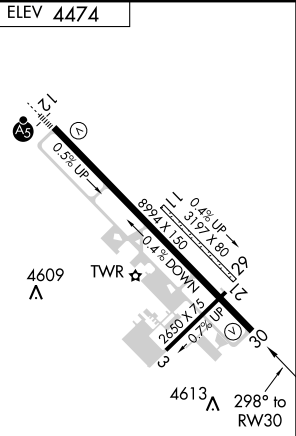
NW-1. 22 OCT 2009 to 19 NOV 2009

NA

MISS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 10000 direct FALIA WP and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	6380-1¼ 1906 (2000-1¼)	6380-1½ 1906 (2000-1½)	6380-3	1906 (2000-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME BZN <u>112.4</u> Chan 71	APP CRS 109°	Rwy Idg 8994 TDZE 4439 Apt Elev 4474
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VOR/DME or GPS RWY 12

BOZEMAN/ GALLATIN FIELD (BZN)



MALSR



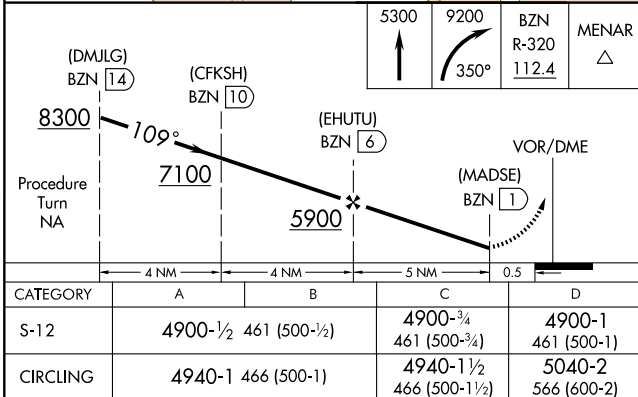
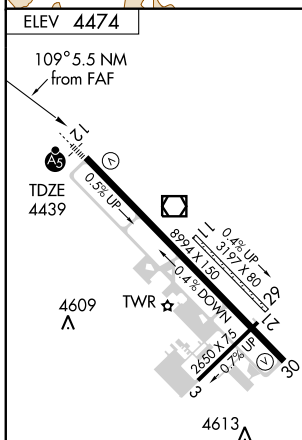
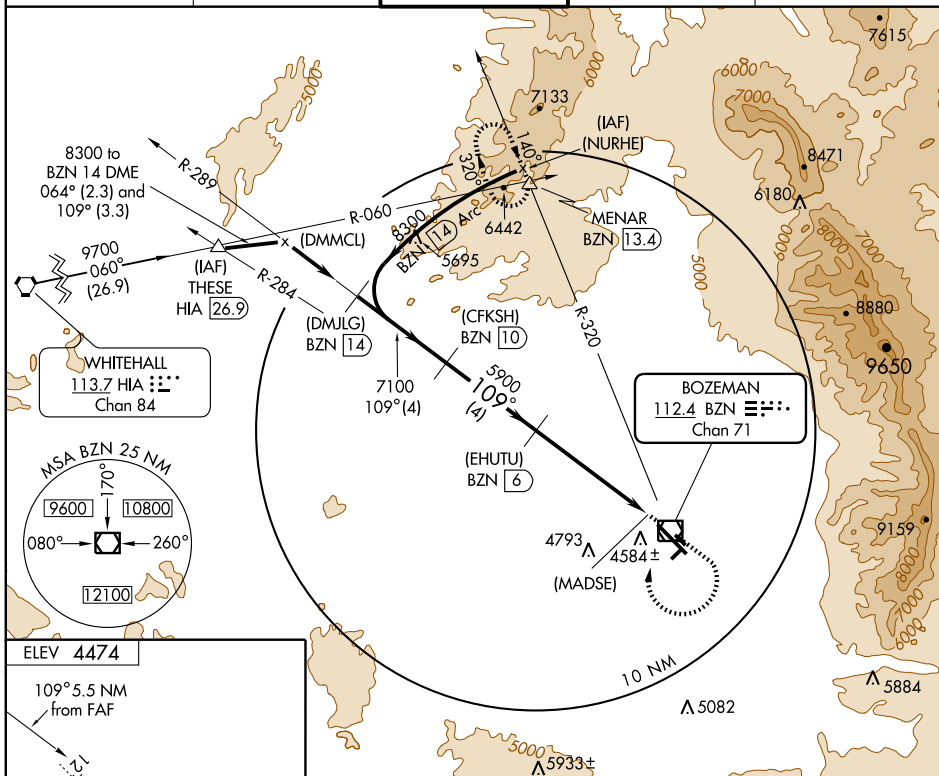
MISSED APPROACH: Climb to 5300, then a climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS
135.425

SALT LAKE CENTER
132.4 338.3

BOZEMAN TOWER★
118.2 (CTAF) L

GND CON
121.8

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 30 **L**
HIRL Rwy 12-30 **L**

Inoperative table does not apply.

MALSR

MISSED APPROACH: Climb to 5300, then climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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Remain within 10 NM

6200

281°

101°

5300

9200

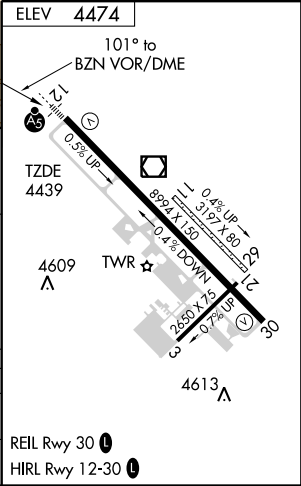
BZN R-320 112.4

MENAR

*VOR/DME

*Maintain 7000 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
S-12	5240-1 801 (800-1)	5240-1 ¼ 801 (800-1 ¼)	5240-2 ½ 801 (800-2 ½)	5240-2 ½ 801 (800-2 ½)
CIRCLING	5240-1 766 (800-1)	5240-1 ¼ 766 (800-1 ¼)	5240-2 ½ 766 (800-2 ½)	5240-2 ½ 766 (800-2 ½)

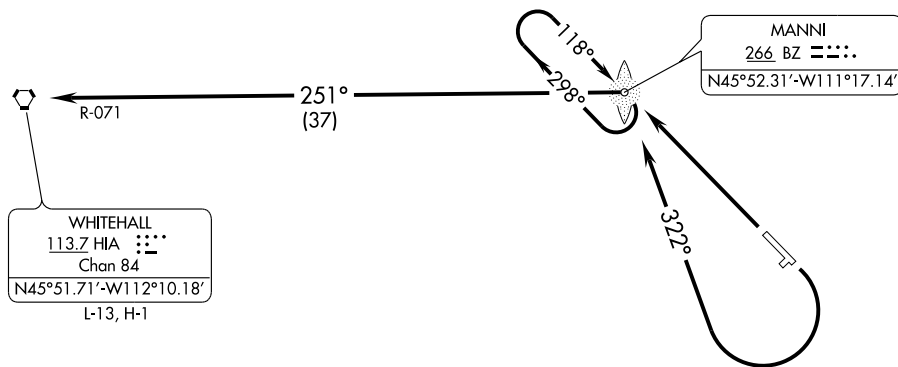


WHITEHALL ONE DEPARTURE

BOZEMAN/ GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

SL-59 (FAA)

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



NOTE: ADF REQUIRED

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12: Standard

Rwy 30: Standard with a minimum climb of 294' per NM to 6500.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept 322° course to MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VORTAC, cross HIA VORTAC at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn direct MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VORTAC, cross HIA VORTAC at or above MCA or MEA for route of flight.

LOC/DME I-BEY 110.9 Chan 46	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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ILS Y RWY 15

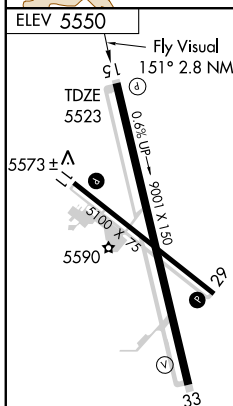
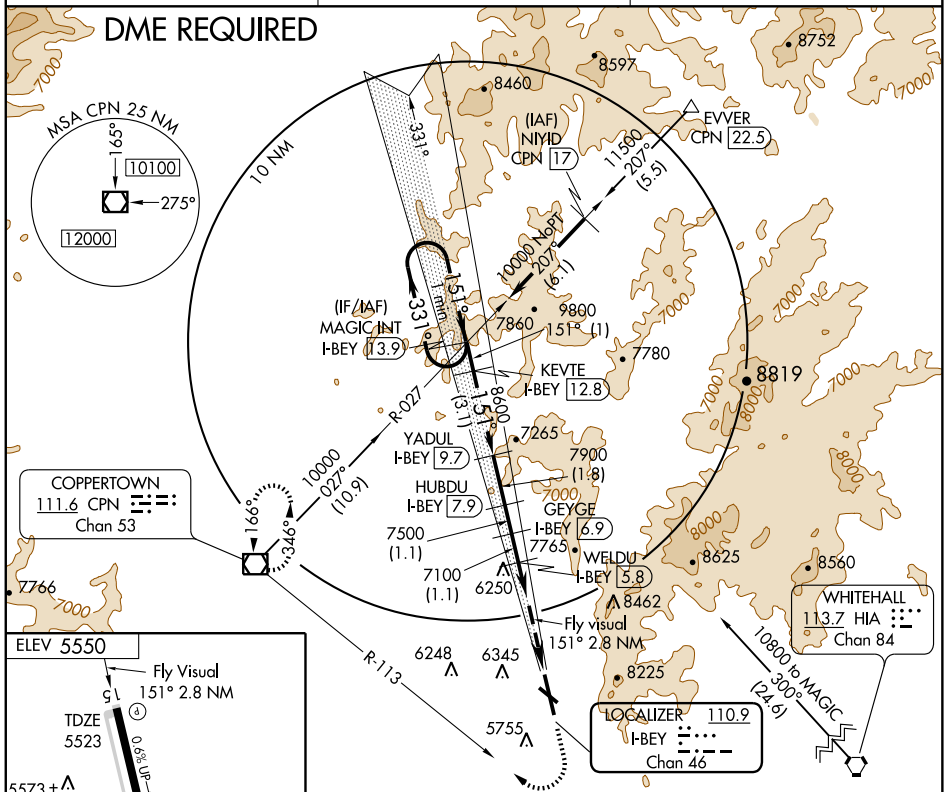
BUTTE/ BERT MOONEY (BTM)

T Circling not authorized northeast of Rwy 15-33.
A When glideslope not used, use LOC/DME RWY 15 procedure.
 Circling requires descent on glideslope to MDA.
 Autopilot coupled approach not authorized.

MISSED APPROACH: Climb to 7300 then climbing right turn to 9000 via CPN R-113 to CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0 (CTAF) 0
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DME REQUIRED



One Minute Holding Pattern		MAGIC INT I-BEY KEVTE 13.9 12.8		YADUL I-BEY 9.7		HUBDU I-BEY 7.9		GEYGE I-BEY 6.9		WELDU I-BEY 5.8		7300 9000 CPN R-113 CPN 111.6		Fly Visual 151° 2.8 NM	
10000		331° 151°		9800		151° 8600		7900		7500		7100			
GS 3.50° TCH 55															
		1 NM		3.1 NM		1.8		1.1		1.1		4.1 NM			
CATEGORY		A		B		C		D							
S-ILS 15		6596-2		1073 (1100-2)		6596-3		1073 (1100-3)		NA					
CIRCLING		6600-4		1050 (1100-4)		6660-4		1110 (1200-4)		NA					

REIL Rwys 11, 15 and 29 **L**
MIRL Rwys 11-29 and 15-33 **L**

AL-588 (FAA)

LOC/DME I-BEY <u>110.9</u> Chan 46	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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LOC/DME RWY 15
BUTTE/ BERT MOONEY (BTM)

T Circling not authorized NE of Rwy 15-33.
A If local altimeter setting not received, procedure NA.

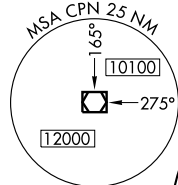
MISSED APPROACH: Climbing right turn to 9200 direct CPN VOR/DME and hold.


ASOS
135.175

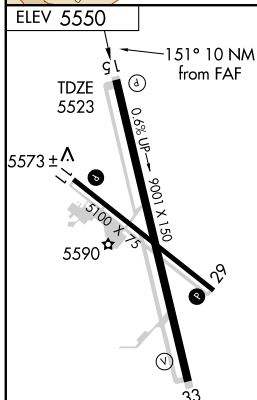
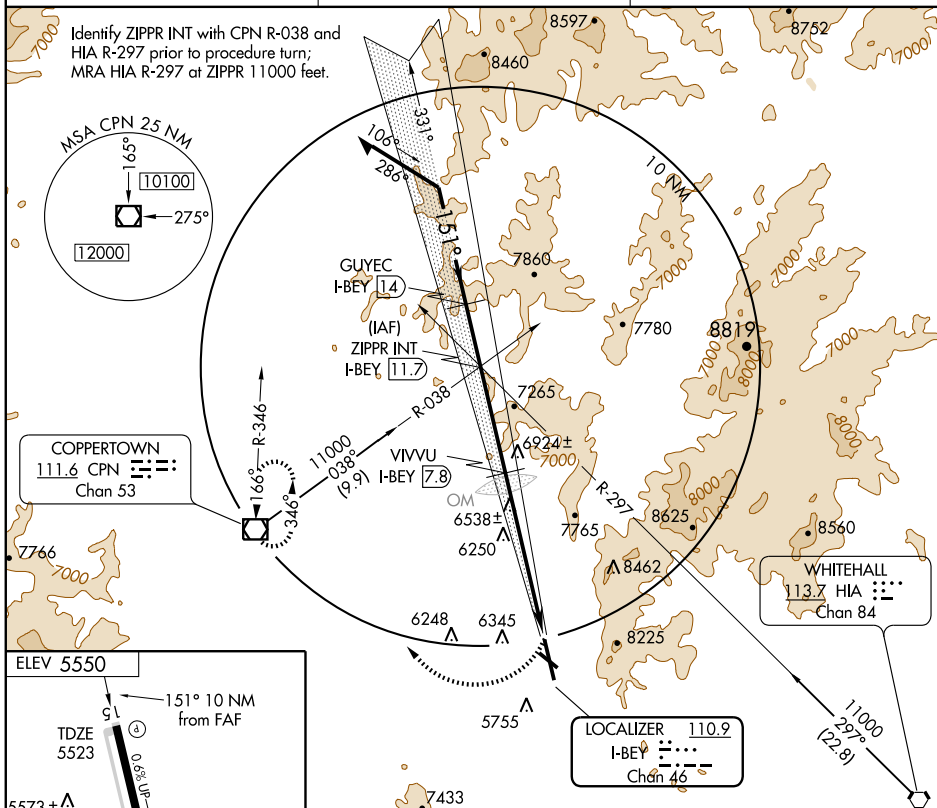
SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

Identify ZIPPR INT with CPN R-038 and HIA R-297 prior to procedure turn; MRA HIA R-297 at ZIPPR 11000 feet.





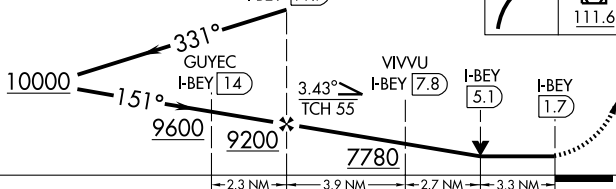
COPPERTOWN
111.6 CPN 
Chan 53



Remain
within 10 NM

ZIPPR INT
I-BEY 11.7

9200	CPN
	
	111.6



REIL Rwy 11, 15 and 29 ^①							CATEGORY		A		B		C		D	
MIRL Rwy 11-29 and 15-33 ^②							S-LOC 15		6800-1¼ 1277 (1300-1¼)		6800-1½ 1277 (1300-1½)		6800-3		1277 (1300-3)	
							CIRCLING		6800-1¼ 1250 (1300-1¼)		6800-1½ 1250 (1300-1½)		6800-3		1250 (1300-3)	
Knots		60	90	120	150	180										
Min:Sec																

NW-1. 22 OCT 2009 to 19 NOV 2009

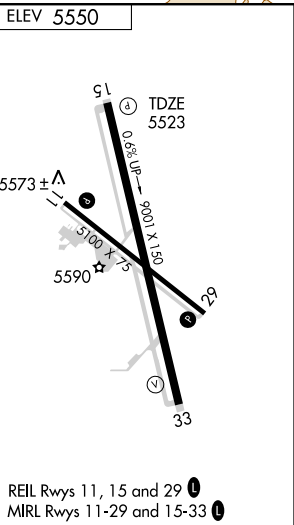
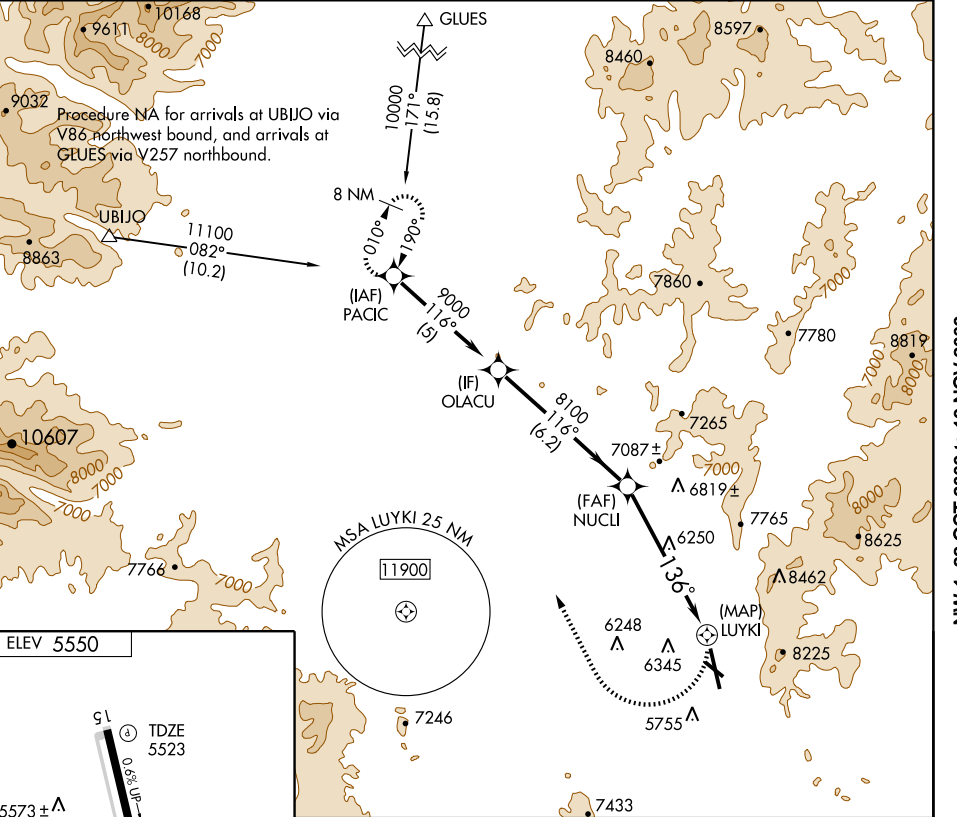
⚠

⚠

Circling NA northeast of Rwy 15-33.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 10000 direct PACIC and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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	OLACU		NUCU		10000	PACIC
	9000		8100			
	Procedure Turn NA		116°		3.69° TCH 55	
			136°		LUYKI	
	6.2 NM		6 NM		0.5	
CATEGORY	A	B	C	D		
LNAV MDA	7040-1¼ 1517 (1500-1¼)	7040-1½ 1517 (1500-1½)	7040-3 1517 (1500-3)	NA		
CIRCLING	7040-1¼ 1490 (1500-1¼)	7040-1½ 1490 (1500-1½)	7040-3 1490 (1500-3)	NA		

WAAS CH 50599 W15A	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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RNAV (GPS) Z RWY 15

BUTTE/BERT MOONEY (BTM)



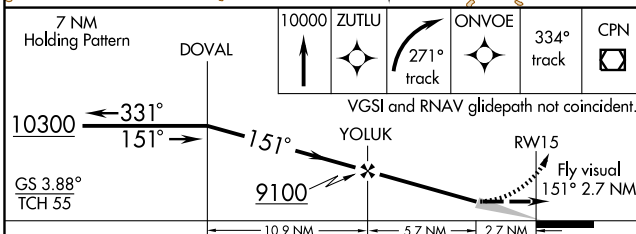
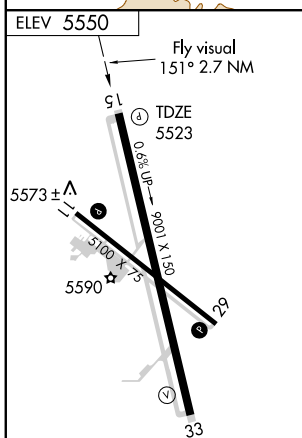
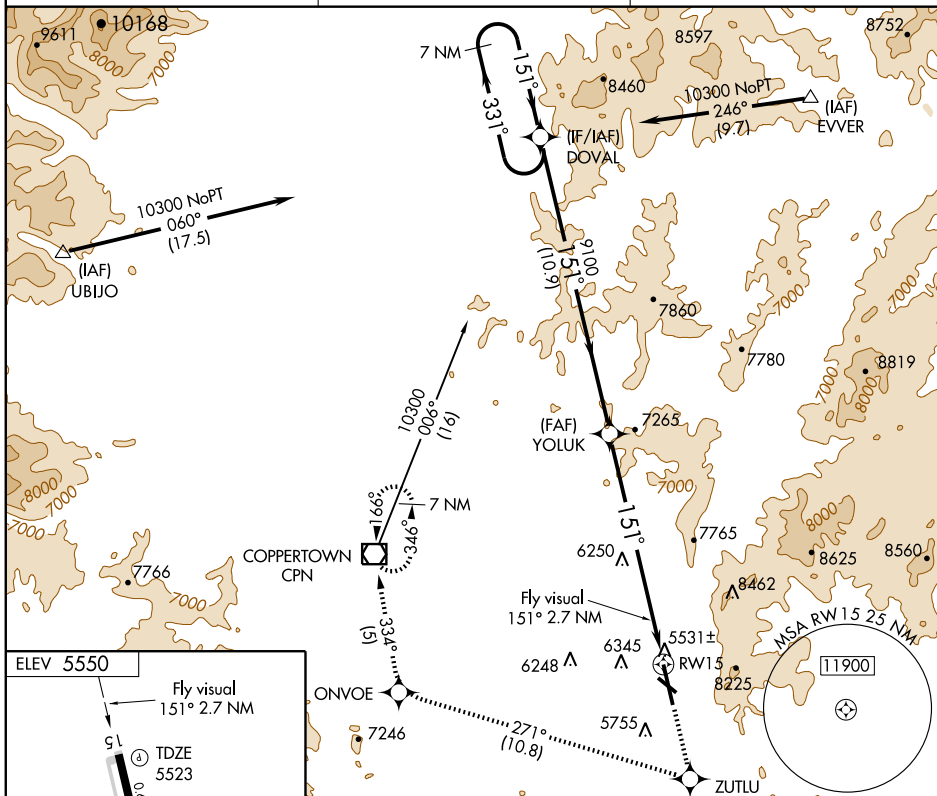
DME/DME RNP- 0.3 NA.

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 10000 direct ZUTLU and right turn via 271° track to ONVOE and via 334° track to CPN VOR/DME and hold, continue climb-in-hold to 10000.

ASOS
135.175

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

CATEGORY		A	B	C	D
LPV	DA	6660-2	1137 (1200-2)	NA	
LNAV/ VNAV	DA	NA			
LNAV	MDA	NA			
CIRCLING		NA			

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 11, 15 and 29 **L**
MIRL Rwy 11-29 and 15-33 **L**

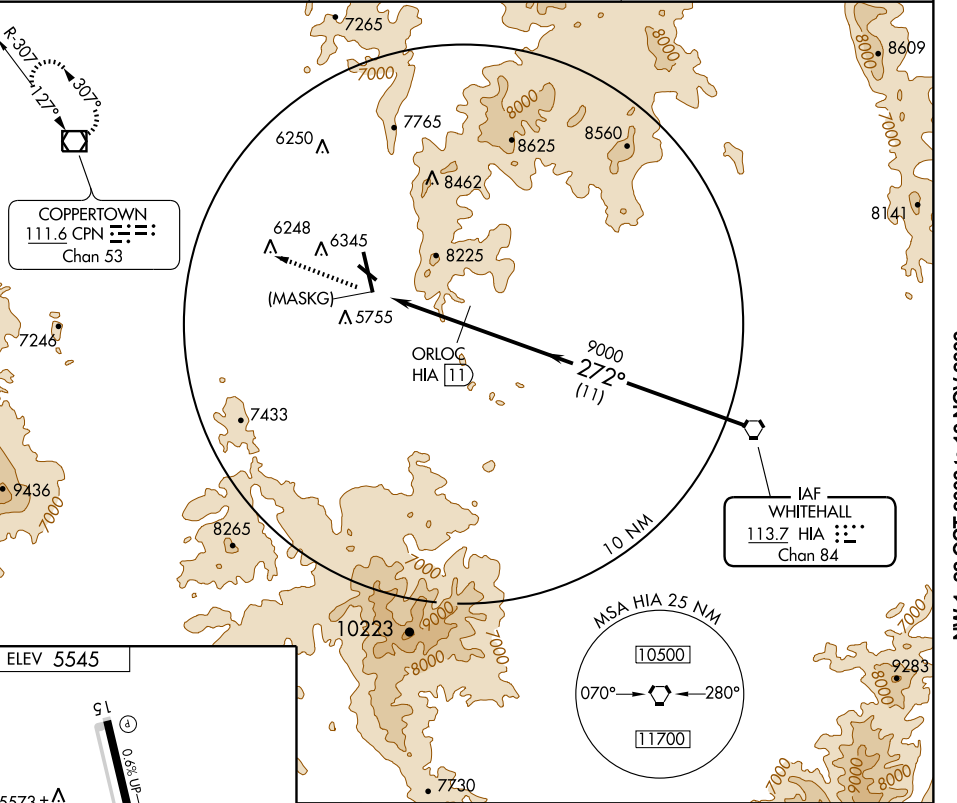
▼

▲

Circling not authorized NE of Rwy 15-33.

MISSED APPROACH: Climb to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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5100 X 75

9001 X 150

5590

272° 3.4 NM from FAF

REIL Rwy 11, 15, and 29

MIRL Rwy 11-29 and 15-33

9000

CPN

111.6

ORLOC HIA 11

VORTAC

272°

9000

Procedure Turn NA

3.4 NM

11 NM

Knots	60	90	120	150	180
Min:Sec					
CATEGORY	A	B	C	D	
CIRCLING	8540-1¼ 2995 (3000-1¼)	8540-1½ 2995 (3000-1½)	8540-3	2995 (3000-3)	

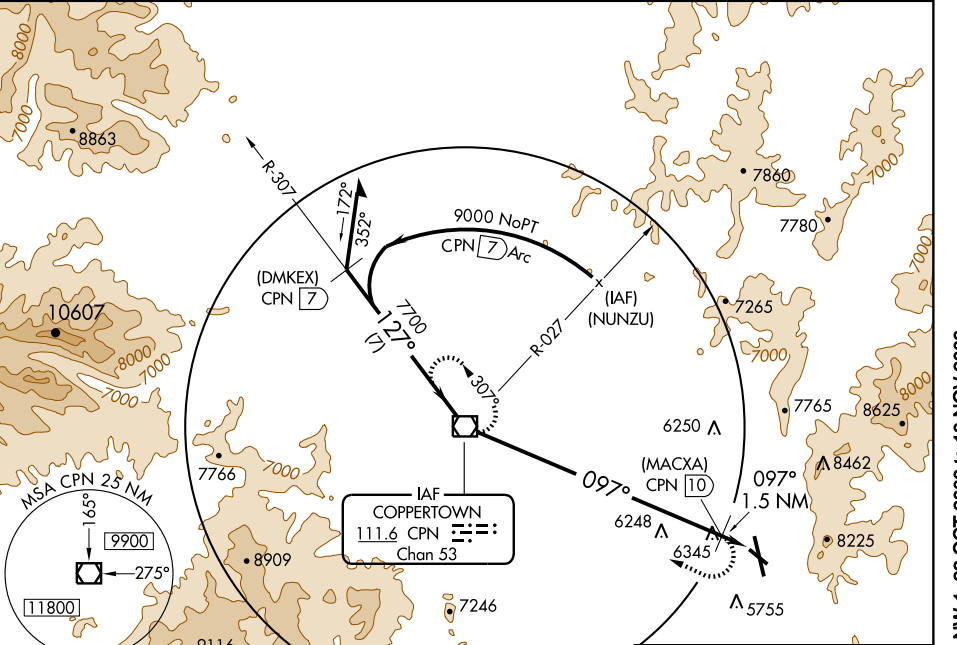
VOR/DME CPN 111.6 Chan 53	APP CRS 097°	Rwy Idg TDZE Apt Elev N/A N/A 5545
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Circling not authorized NE of Rwy 15-33.

MISSED APPROACH: Climbing right turn to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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Remain within 10 NM

VOR/DME

9000

307°

127°

7700

097°

(MACXA) CPN 10

Fly Visual 097° 1.5 NM

10 NM

ELEV 5545

91

5573 ±

5100 X 75

5590

Fly Visual 097° 1.5 NM

33

REIL Rwys 11, 15 and 29

MIRL Rwys 11-29 and 15-33

CATEGORY	A	B	C	D	FAF to MAP 10 NM					
CIRCLING	6900-1½ 1355 (1400-1½)		6900-3 1355 (1400-3)		Knots	60	90	120	150	180
					Min:Sec	10:00	6:40	5:00	4:00	3:20

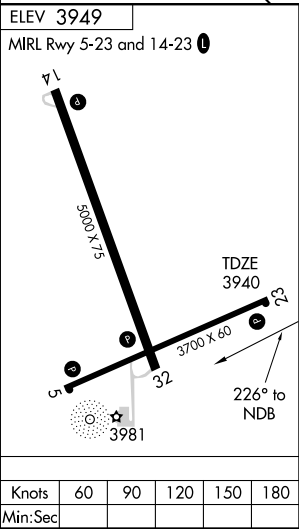
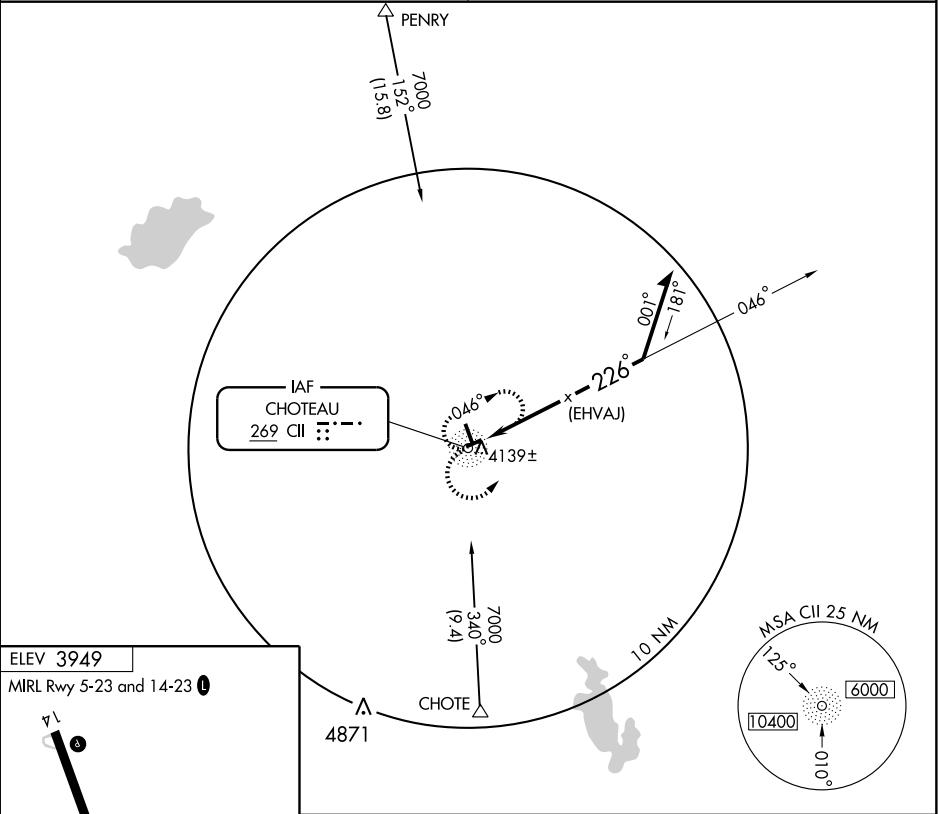
NW-1, 22 OCT 2009 to 19 NOV 2009

NDB CII	APP CRS	Rwy Idg	3700
269	226°	TDZE	3940
		Apt Elev	3949


NDB or GPS RWY 23

CHOTEAU (CII)

<div>▲ NA</div> <div>Use Great Falls altimeter setting.</div>	MISSED APPROACH: Climbing left turn to 6000 direct CII NDB and hold.
SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0



6000



CII

269

NDB

046°

Remain within 10 NM

(EHVAJ)

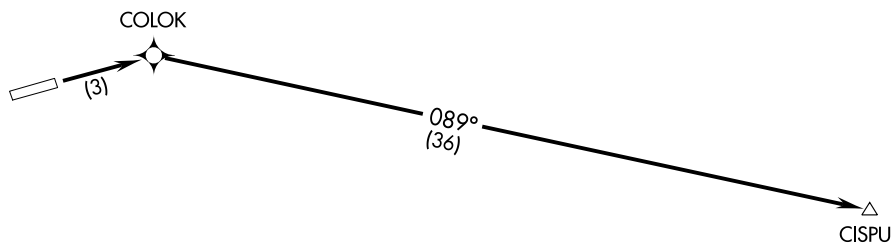
6000

226°

4 NM

CATEGORY	A	B	C	D
S-23	4720-1 780 (800-1)	4720-1¼ 780 (800-1¼)	4720-2¼ 780 (800-2¼)	NA
CIRCLING	4720-1 775 (800-1)	4720-1¼ 775 (800-1¼)	4720-2¼ 775 (800-2¼)	NA

SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: Standard.
Rwy 24: NA - ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 6: Tree 1492' from DER, 620' right of centerline, 20' AGL/3499' MSL.
Tree 507' from DER, 598' left of centerline, 20' AGL/3419' MSL.

NOTE: GPS required.

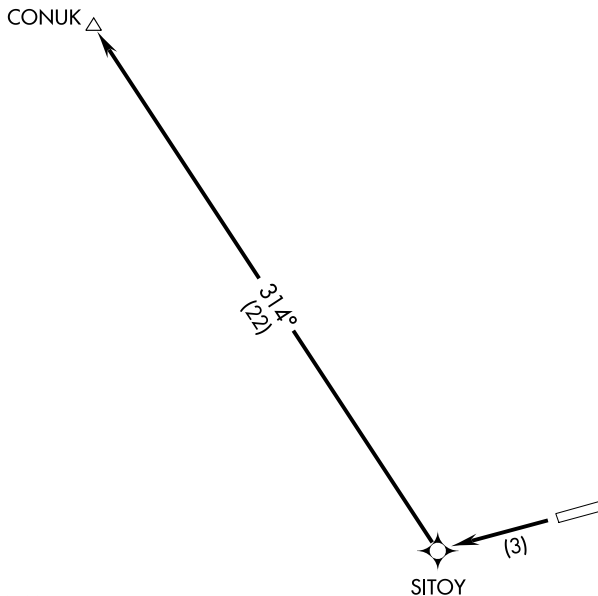
NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct COLOK then via 089° track to CISPU, thence....
....Maintain 9000, expect filed altitude 10 minutes after departure.

CONUK ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9TAKE-OFF MINIMUMS

Rwy 6: NA - ATC.

Rwy 24: 600-3 or standard with minimum climb of 365' per NM to 4200.

TAKE-OFF OBSTACLE NOTE

Rwy 24: Dragline 11510' from DER, 3559' right of centerline, 225' AGL/3964' MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb direct SITOY then via 314° track to CONUK, thence....
....Maintain 6000, expect filed altitude 10 minutes after departure.

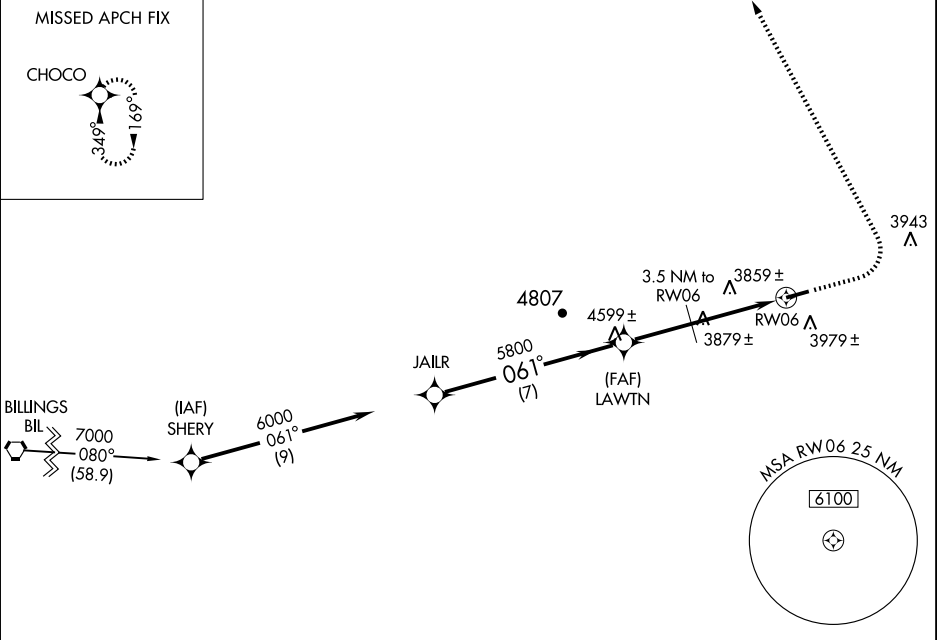
APP CRS	Rwy Idg	5100
061°	TDZE	3426
	Apt Elev	3426

NA When local altimeter not received use Miles City altimeter setting.

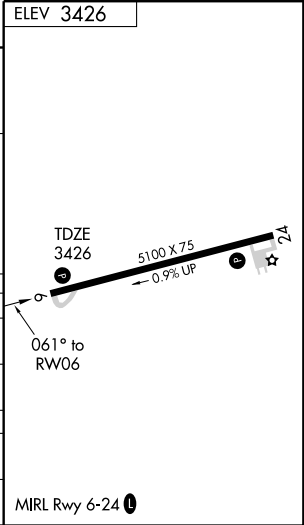
MISSED APPROACH: Climb to 4500 then climbing left turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.9



JAILR				
*5045 when using Miles City altimeter setting.				
4500 6000 CHOCO				
6000 061° 5800 3.5 NM to RWY06 RWY06				
Procedure Turn NA				
7 NM 2.5 NM 3.5 NM				
CATEGORY	A	B	C	D
S-6	4220-1 794 (800-1)	4220-1 ¼ 794 (800-1 ¼)	4220-2 ¼ 794 (800-2 ¼)	NA
CIRCLING	4340-1 ¼ 914 (1000-1 ¼)	914 (1000-1 ¼)	4340-2 ¾ 914 (1000-2 ¾)	NA
MILES CITY ALTIMETER SETTING				
S-6	NA			
CIRCLING	4580-1 ¼ 1154 (1200-1 ¼)	4580-1 ½ 1154 (1200-1 ½)	4580-3 1154 (1200-3)	NA



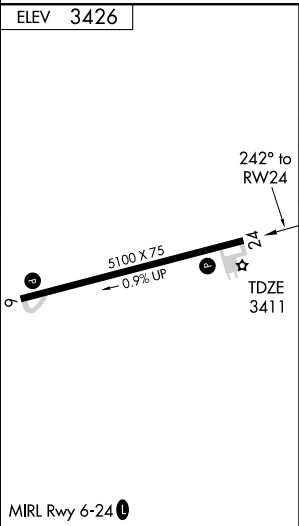
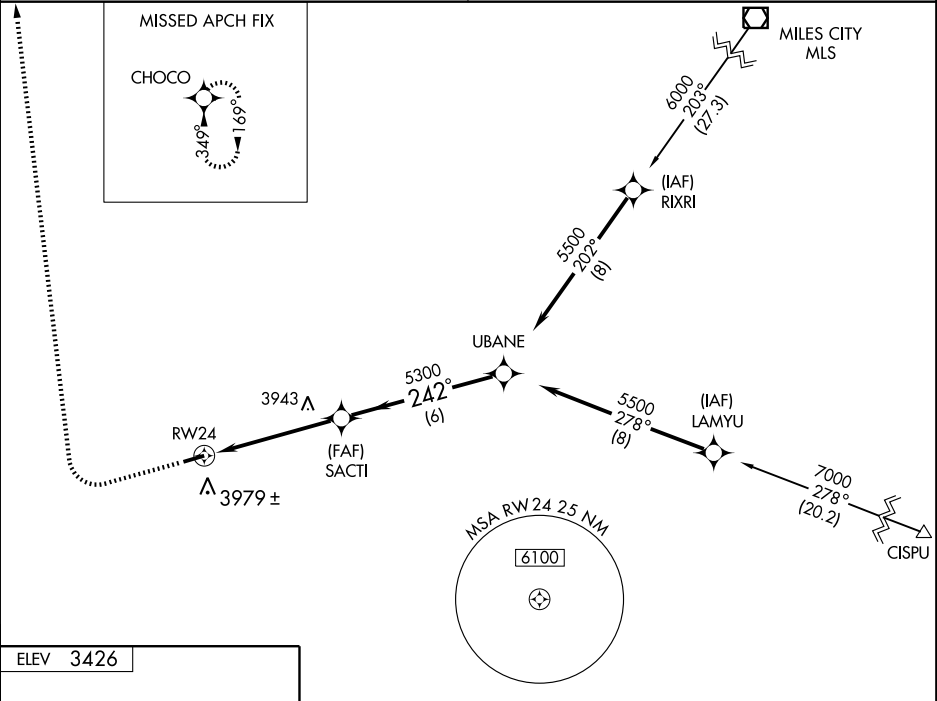
GPS RWY 24
COLSTRIP (M46)

APP CRS	Rwy Idg	5100
242°	TDZE	3411
	Apt Elev	3426

When local altimeter not received use Miles City
altimeter setting.

MISSED APPROACH: Climb to 4500 then climbing right turn to
6000 direct CHOCO WP and hold.

SALT LAKE CENTER 127.75 351.9	CTAF 122.9 0
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	4500	6000	CHOCO	
	↑	↗	✧	
				UBANE
			SACTI	5500
			5300	242°
			5 NM	6 NM
CATEGORY	A	B	C	D
S-24	4200-1 789 (800-1)	4200-1¼ 789 (800-1¼)	4200-2¼ 789 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)	4340-2¼ 914 (1000-2¼)	4340-3¼ 914 (1000-3¼)	NA
MILES CITY ALTIMETER SETTING				
S-24	4440-1¼ 1029 (1100-1¼)	4440-1½ 1029 (1100-1½)	4440-2¾ 1029 (1100-2¾)	NA
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA

NDB CRD	APP CRS	Rwy Idg	4601
<u>293</u>	230°	TDZE	3535
		Apt Elev	3545

NDB or GPS RWY 24
CONRAD (S01)

CONRAD (S01)



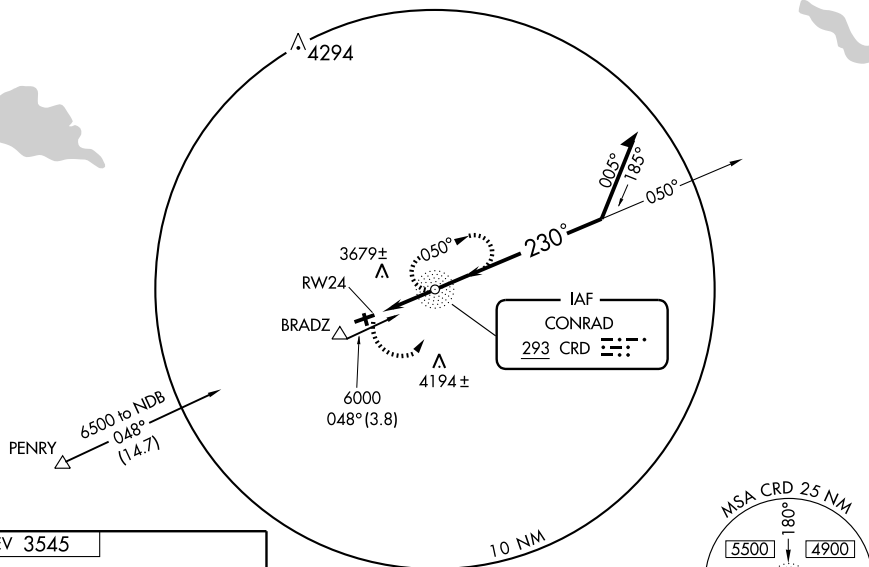
ANA

Use Cut Bank altimeter setting; if not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 5200 direct CRD NDB and hold.

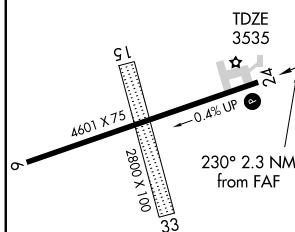
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



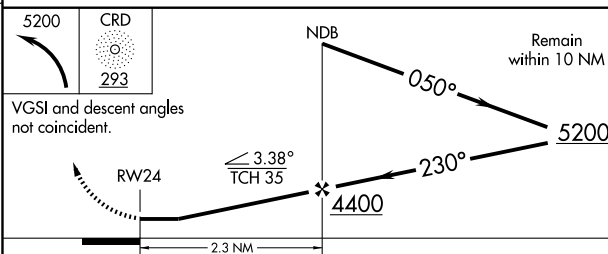
NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 3545

MIRL Rwy 6-24 **L**REIL Rwy 24 **L**

FAF to MAP 2.3 NM

Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46



CATEGORY	A	B	C	D
S-24	4260-1	725 (800-1)	4260-2 725 (800-2)	4260-2¼ 725 (800-2¼)
CIRCLING	4260-1	715 (800-1)	4340-2¼ 795 (800-2¼)	NA

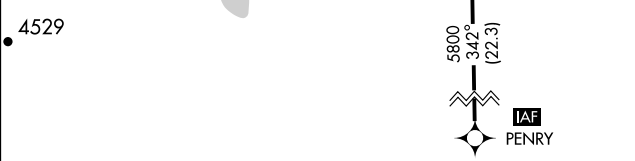
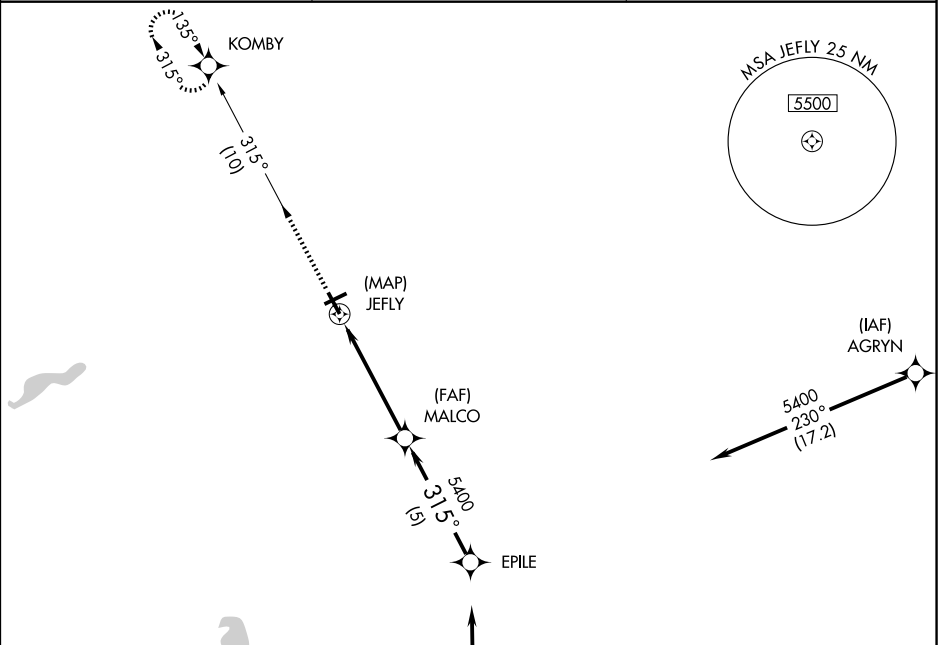
APP CRS	Rwy Idg	5300
315°	TDZE	3847
	Apt Elev	3854

GPS RWY 31

CUT BANK MUNI (CTB)

▲ NA	IAF ARM APPROACH MODE PRIOR TO IAF.	MISSED APPROACH: Climb to 6000 via 315° course to KOMBY WP and hold.
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ASOS 119.025	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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6000

↑

CRS 315°

KOMBY

✦

MALCO

EPILE

JEFLY

✕

5400

315°

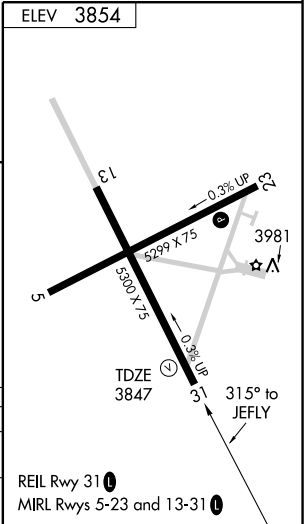
5400

Procedure Turn
NA

5 NM

5 NM

CATEGORY	A	B	C	D
S-31	4220-1 373 (400-1)			4220-1¼ 373 (400-1¼)
CIRCLING	4220-1 366 (400-1)	4320-1 466 (500-1)	4320-1½ 466 (500-1½)	4420-2 566 (600-2)



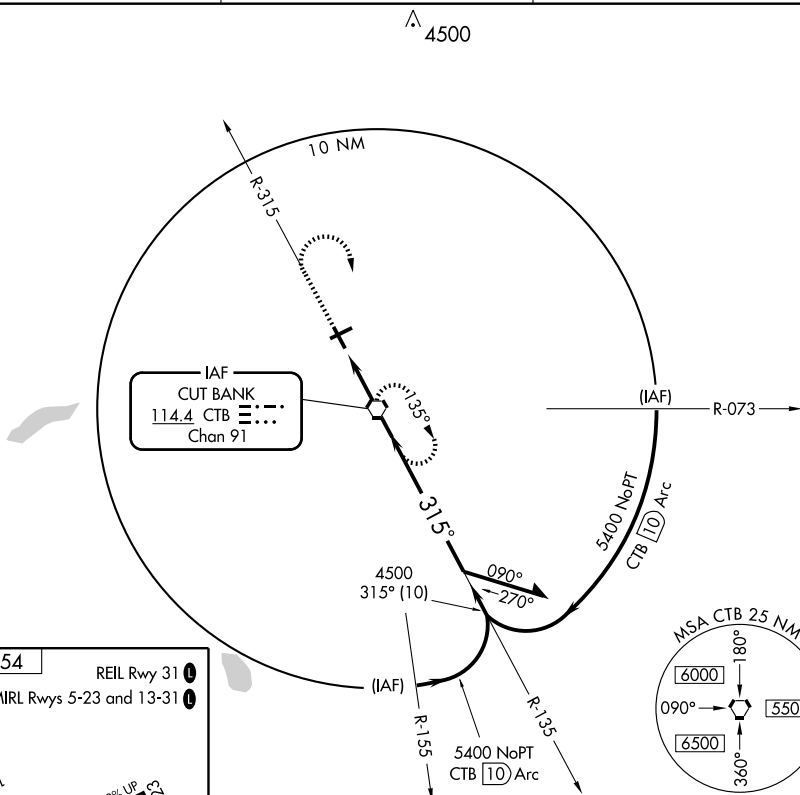
VORTAC CTB <u>114.4</u> Chan 91	APP CRS 315°	Rwy Idg 5300 TDZE 3847 Apt Elev 3854
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VOR RWY 31
CUT BANK MUNI (CTB)

MISSED APPROACH: Climb to 5400 via CTB R-315 then right turn direct CTB VORTAC and hold.

ASOS
119.025

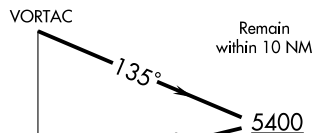
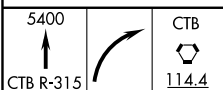
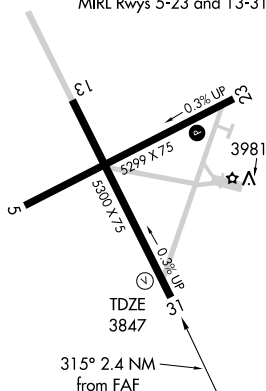
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**

ELEV 3854

REIL Rwy 31 **L**

MIRL Rwy 5-23 and 13-31 L



CATEGORY	A	B	C	D
S-31	4200-1 353 (400-1)			4200-1¼ 353 (400-1¼)
CIRCLING	4340-1 486 (500-1)	4340-1½ 486 (500-1½)		4420-2 566 (600-2)

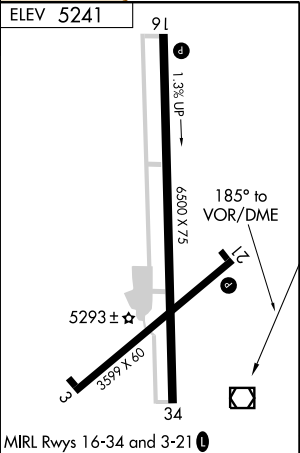
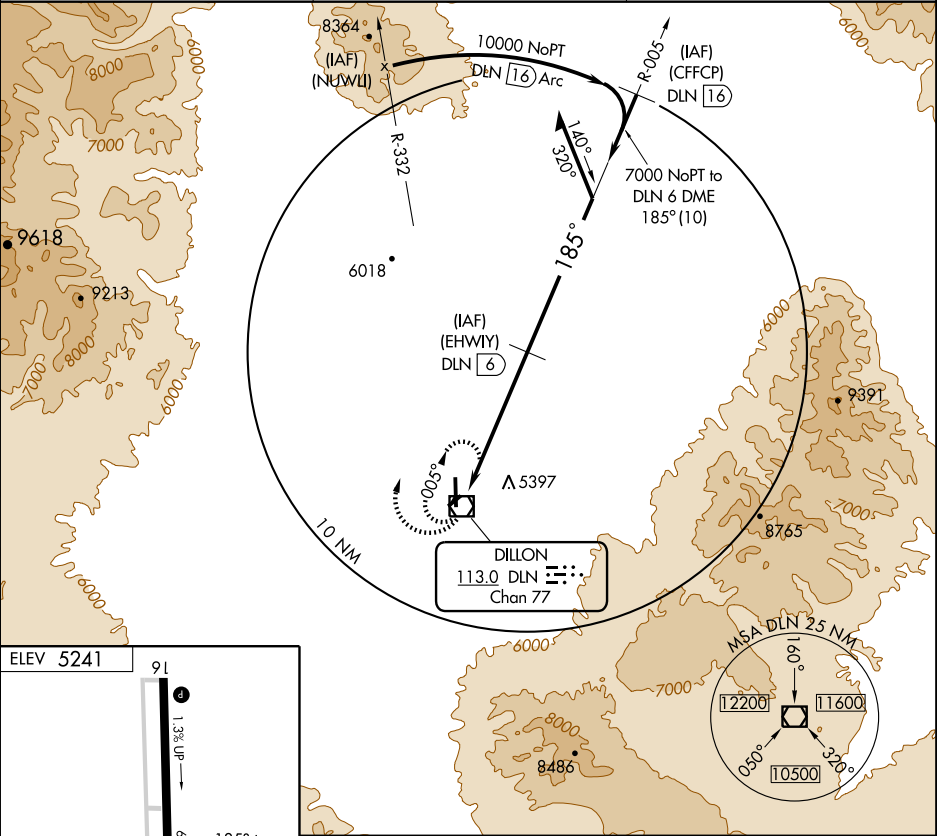
VOR/DME DLN 113.0 Chan 77	APP CRS 185°	Rwy Idg TDZE Apt Elev N/A N/A 5241
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VOR/DME or GPS-B
DILLON (DLN)

Procedure not authorized when Dillon altimeter setting not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS 135,225	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF)
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MIRL Rwy 16-34 and 3-21

		CATEGORY		A	B	C	D
Knots	60	90	120	150	180		
Min:Sec							
CIRCLING				5720-1 482 (500-1)	5740-1 502 (600-1)	5760-1½ 522 (600-1½)	5840-2 602 (700-2)

AL-121 (FAA)

VOR/DME DLN <u>113.0</u> Chan 77	APP CRS 185°	Rwy Idg N/A TDZE N/A Apt Elev 5241
--	------------------------	---

VOR or GPS-A
DILLON (DLN)

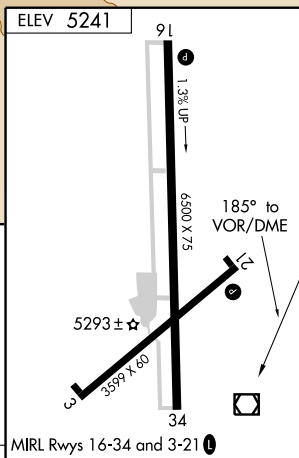
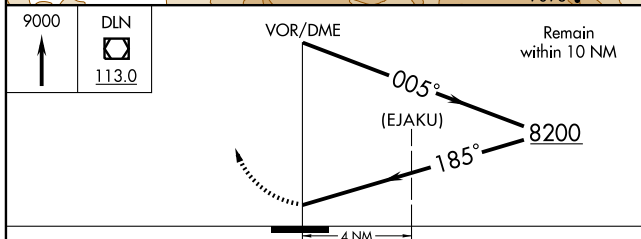
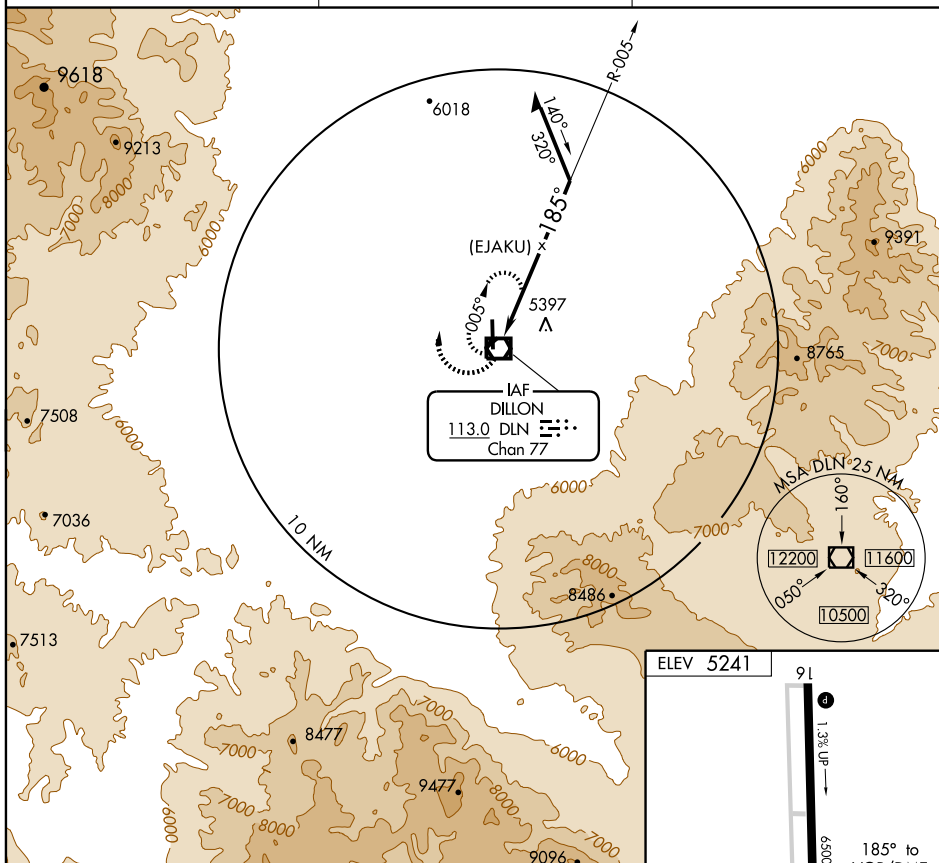
T Procedure not authorized when Dillon altimeter setting
A not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS
135.225

SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 1462 (1500-1¼)	6700-1½ 1462 (1500-1½)	6700-3	1462 (1500-3)

Knots	60	90	120	150	180
Min:Sec					

NW-1. 22 OCT 2009 to 19 NOV 2009

Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

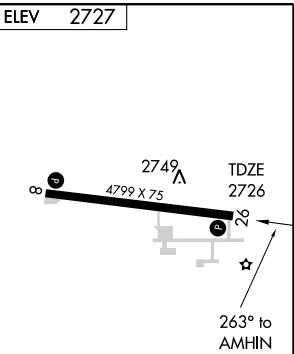
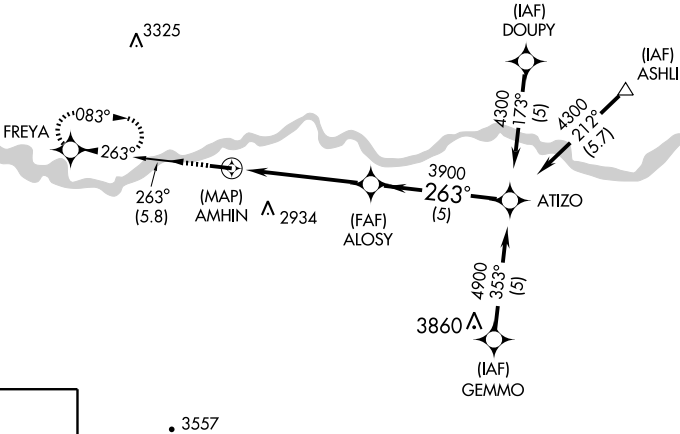
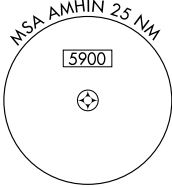
MISSED APPROACH: Climb to 4900 via 263° course to FREYA WP and hold.

GREAT FALLS RADIO

122.2 255.4

UNICOM

122.8 (CTAF) 0



<div>4900</div> <div>↑</div> <div>263°</div>		<div>FREYA</div> <div>✦</div>	<div>ALOSY</div> <div>✦</div>		<div>ATIZO</div> <div>✦</div>	Procedure Turn NA
		<div>AMHIN</div> <div>✦</div>		<div>3900</div> <div>✦</div>		<div>4300</div> <div>✦</div>
		5 NM		5 NM		
CATEGORY	A		B	C		D
S-26	3200-1		474 (500-1)	3200-1¼ 474 (500-1¼)		3200-1½ 474 (500-1½)
CIRCLING	3280-1 553 (600-1)	3400-1 673 (700-1)		3420-2 693 (700-2)		3440-2¼ 713 (800-2¼)

NDB FOR	APP CRS	Rwy Idg	4799
<u>236</u>	<u>257°</u>	TDZE	2726
		Apt Elev	2727

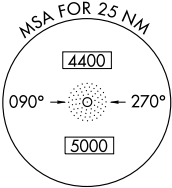
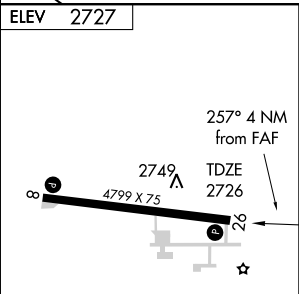
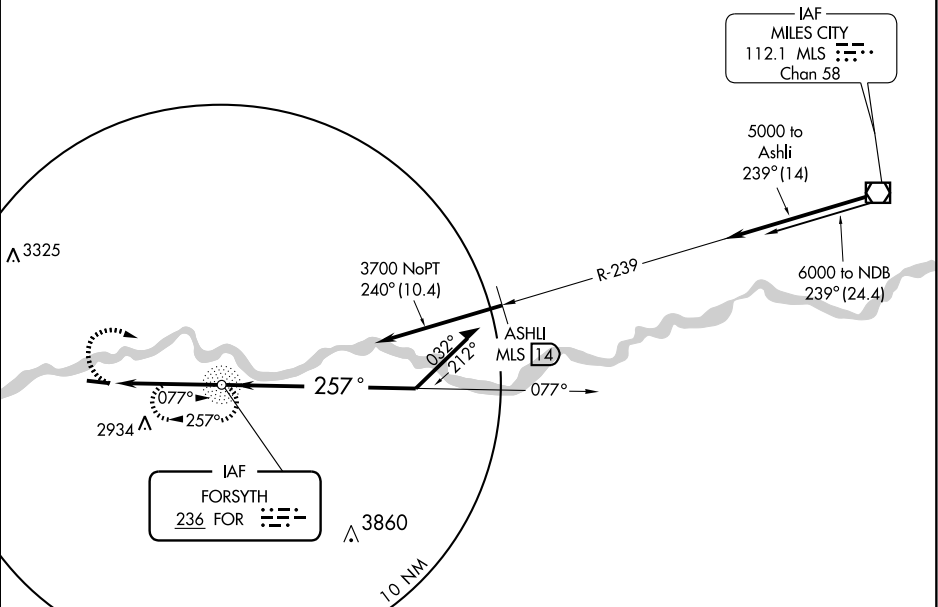
NDB RWY 26
FORSYTH/ TILLITT FIELD (1S3)

Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climbing right turn to 4700 direct FOR NDB and hold.

GREAT FALLS RADIO
122.2 255.4

UNICOM
122.8 (CTAF) 0



MIRL Rwy 8-26 0

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

4700

FOR

236

NDB

077°

4700

Remain within 10 NM

3700

257°

4 NM

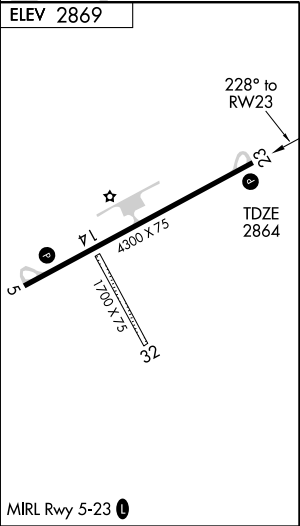
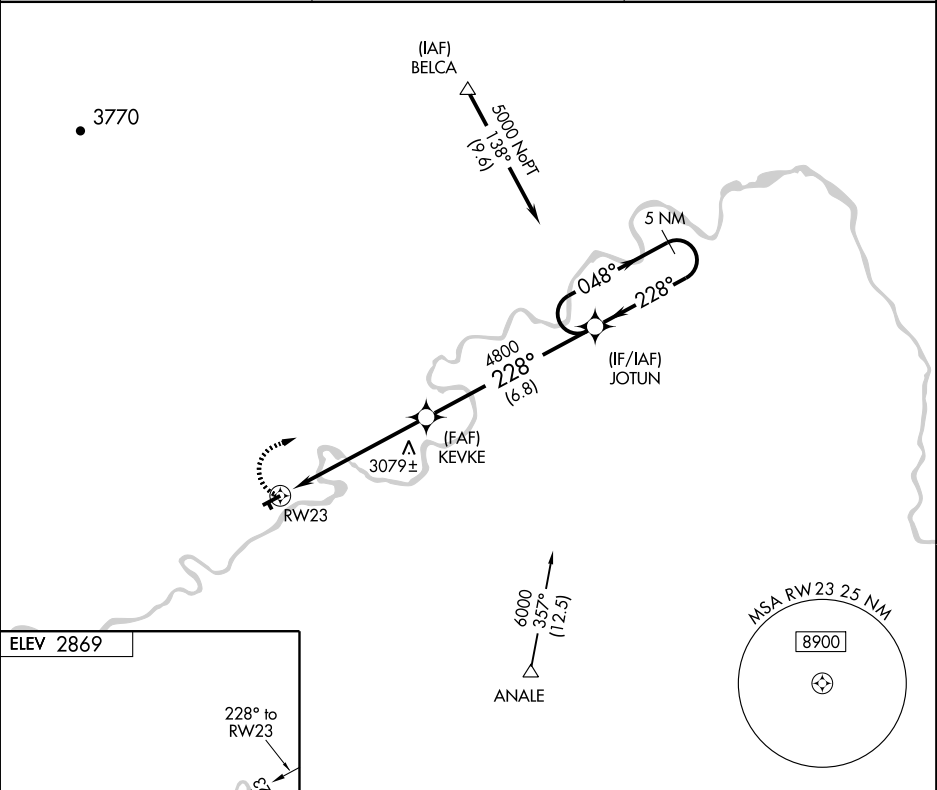
CATEGORY	A	B	C	D
S-26	3340-1	614 (700-1)	3340-1¾ 614 (700-1¾)	3340-2 614 (700-2)
CIRCLING	3340-1 614 (700-1)	3420-1 694 (700-1)	3420-2 694 (700-2)	3440-2¼ 714 (800-2¼)

APP CRS	Rwy Idg	4300
228°	TDZE	2864
	Apt Elev	2869

RNAV (GPS) RWY 23
FORT BENTON (79S)

<p>⚠ DME/DME RNP-0.3 NA. Procedure NA at night.</p> <p>⚠ When local altimeter setting not received, use Great Falls altimeter setting and increase all MDA 280 feet and all Cat B and C visibilities 1 mile.</p>	<p>MISSED APPROACH: Climbing right turn to 5000 direct JOTUN and hold.</p>
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AWOS-A 122.8	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 📶
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	5000	JOTUN		
			JOTUN	5 NM Holding Pattern
		1.4 NM to RW23	KEVKE	
		≤ 3.05° TCH 40		
		RW23		
	1.4	4.5 NM	6.8 NM	
CATEGORY	A	B	C	D
LNAV MDA	3340-1	476 (500-1)	3340-1¼ 476 (500-1¼)	NA
CIRCLING	3340-1	471 (500-1)	3340-1½ 471 (500-1½)	NA

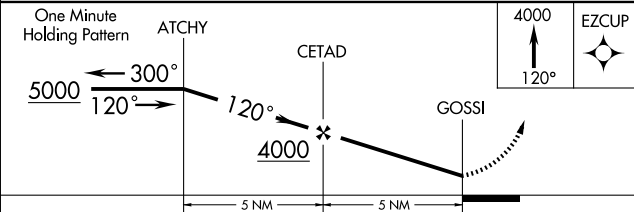
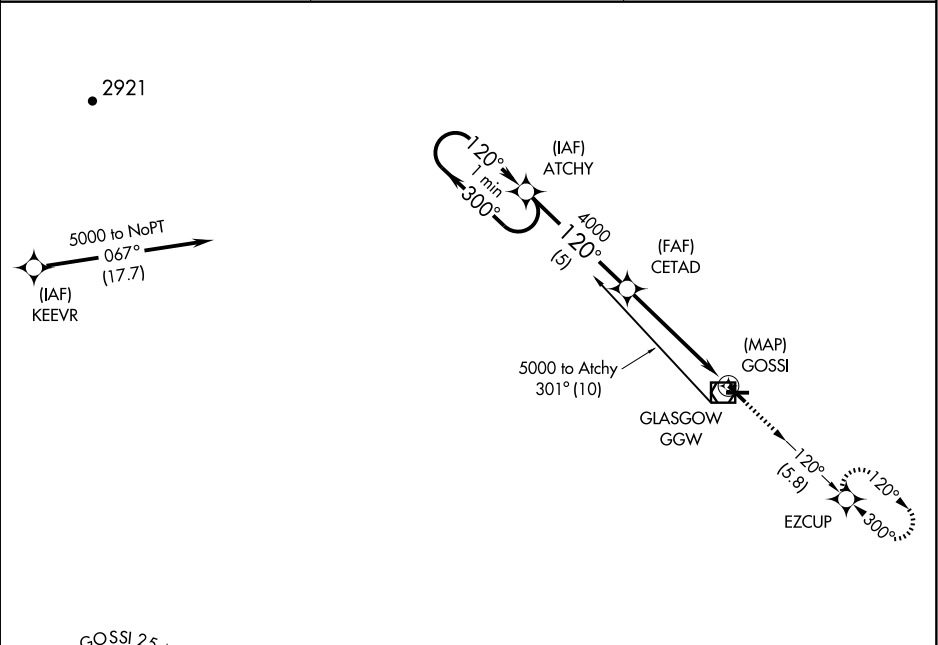
⚠ NA

MISSED APPROACH: Climb to 4000 via 120° course to EZCUP WP and hold.

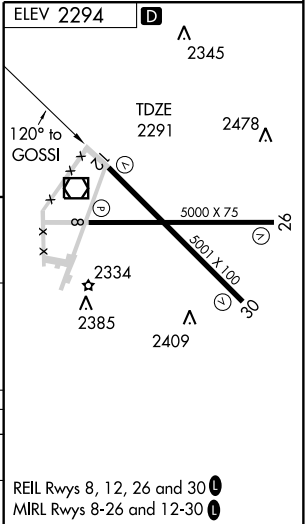
ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A		B		C	D
S-12	2720-1	429 (500-1)	2720-1¼	429 (500-1¼)	2720-1½	429 (500-1½)
CIRCLING	2780-1	486 (500-1)	2780-1½	486 (500-1½)	2860-2	566 (600-2)



NDB MKR
339

APP CRS
272°

Rwy Idg	5001
TDZE	2291
Apt Elev	2294

NDB RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

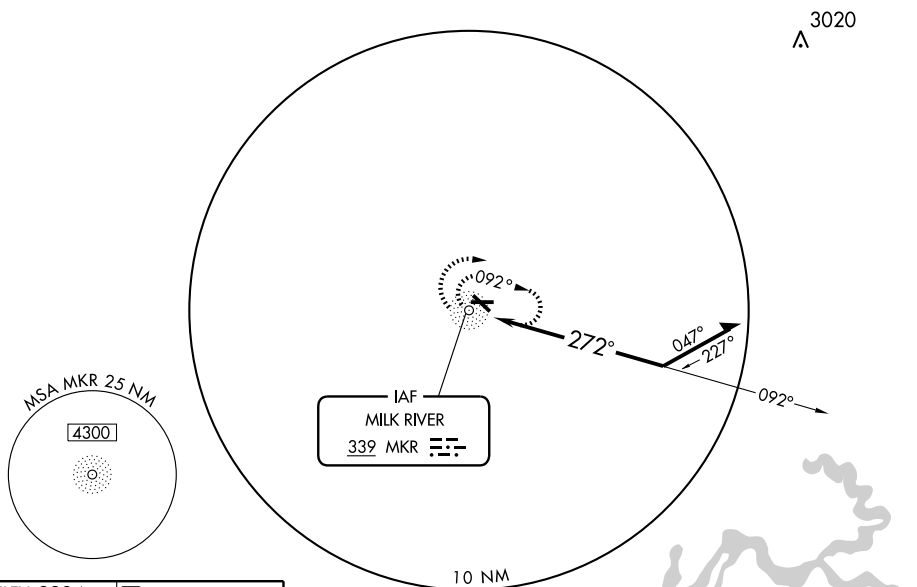
ACTIVATE MIRL Rwy's 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in MKR NDB holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

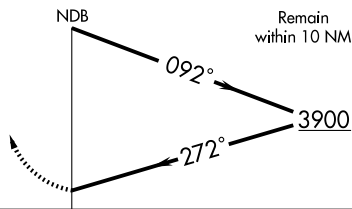
UNICOM
122.8 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 2294

D

$$\begin{matrix} \Delta \\ 2345 \end{matrix}$$
2478 Δ MKR
339

CATEGORY	A	B	C	D
S-30	2840-1	549 (600-1)	2840-1½ 549 (600-1½)	2840-1¾ 549 (600-1¾)
CIRCLING	2840-1	547 (600-1)	2840-1½ 547 (600-1½)	2860-2 567 (600-2)

REIL Rwys 8, 12, 26 and 30 **L**MIRL Rwy 8-26 and 12-30 **L**

VOR/DME GGW 113.9 Chan 86	APP CRS 293°	Rwy Idg TDZE Apt Elev	5001 2291 2294
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VOR or GPS RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

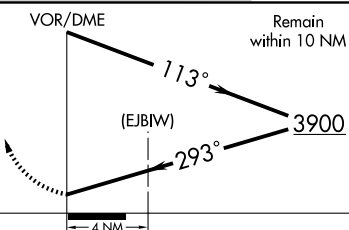
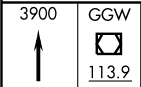
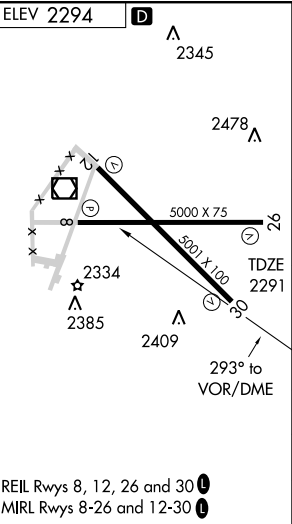
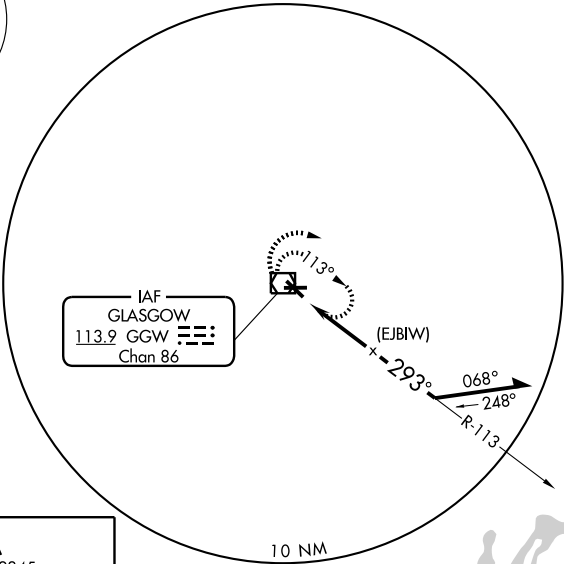
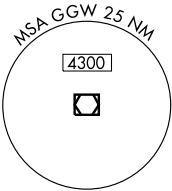
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in GGW VOR/DME holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A		B	C	D
S-30	2780-1	489 (500-1)		2780-1½ 489 (500-1½)	2780-1½ 489 (500-1½)
CIRCLING	2780-1	487 (500-1)		2780-1½ 487 (500-1½)	2860-2 567 (600-2)

VOR RWY 12

VOR/DME GGW
113.9
Chan **86**

APP CRS
133°

Rwy Idg
TDZE
Apt Elev
5001
2291
2294

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

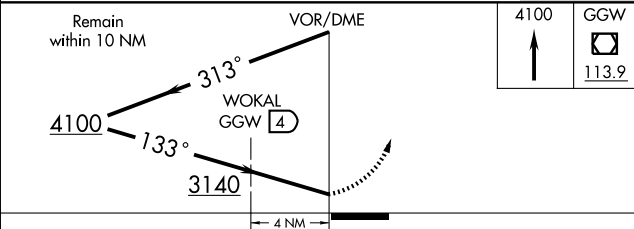
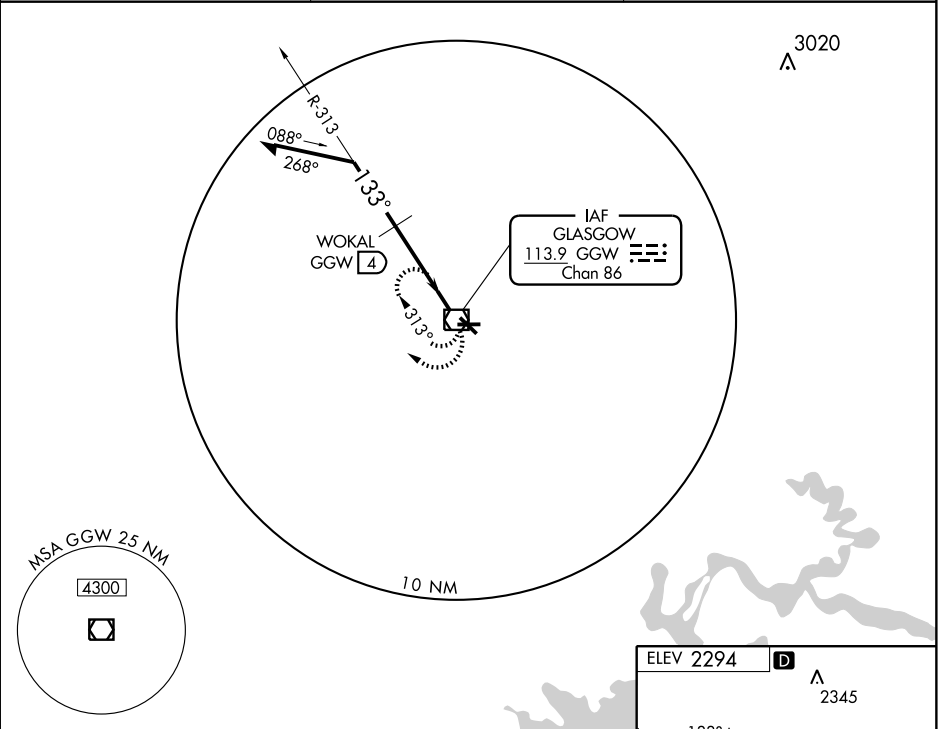
A
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 4100 in GGW VOR/DME holding pattern.

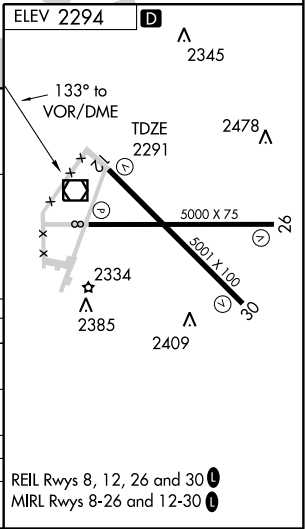
ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
S-12	3140-1 849 (900-1)	3140-1¼ 849 (900-1¼)	3140-2½ 849 (900-2½)	3140-2¾ 849 (900-2¾)
CIRCLING	3140-1 847 (900-1)	3140-1¼ 847 (900-1¼)	3140-2½ 847 (900-2½)	3140-2¾ 847 (900-2¾)
VOR/DME MINIMUMS				
S-12	2700-1	409 (500-1)	2700-1¼	409 (500-1¼)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)



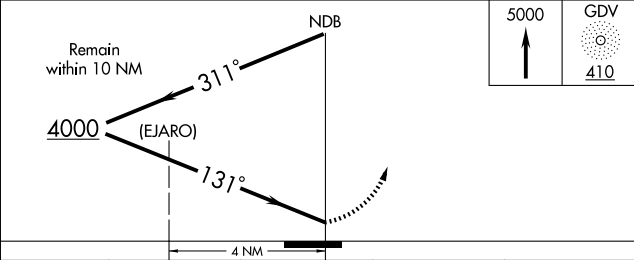
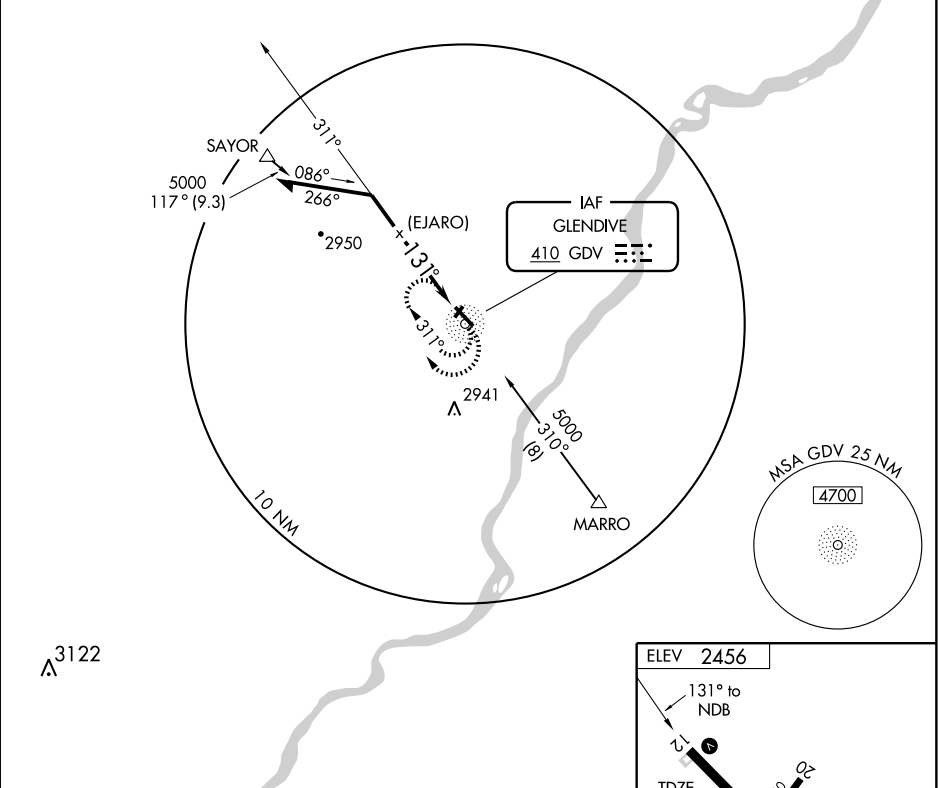
REIL Rwy 8, 12, 26 and 30
MIRL Rwy 8-26 and 12-30

NDB GDV 410	APP CRS 131°	Rwy Idg TDZE Apt Elev	5704 2456 2456
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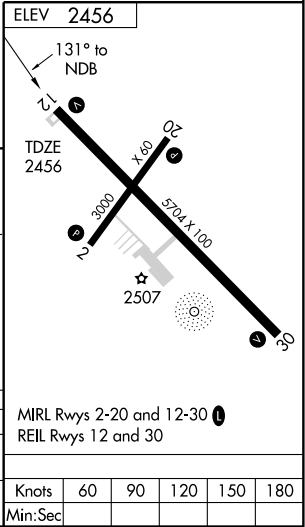
NDB or GPS RWY 12
 GLENDIVE/ DAWSON COMMUNITY (GDV)

<div>⚠</div>	MISSED APPROACH: Climb to 5000 in GDV NDB holding pattern.
--------------	--

AWOS-3 135.075	GREAT FALLS RADIO 122.55	UNICOM 122.8 (CTAF)
--------------------------	------------------------------------	-------------------------------



CATEGORY	A	B	C	D
S-12	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)
CIRCLING	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)



MIRL Rwy 2-20 and 12-30
 REIL Rwy 12 and 30

Knots	60	90	120	150	180
Min:Sec					

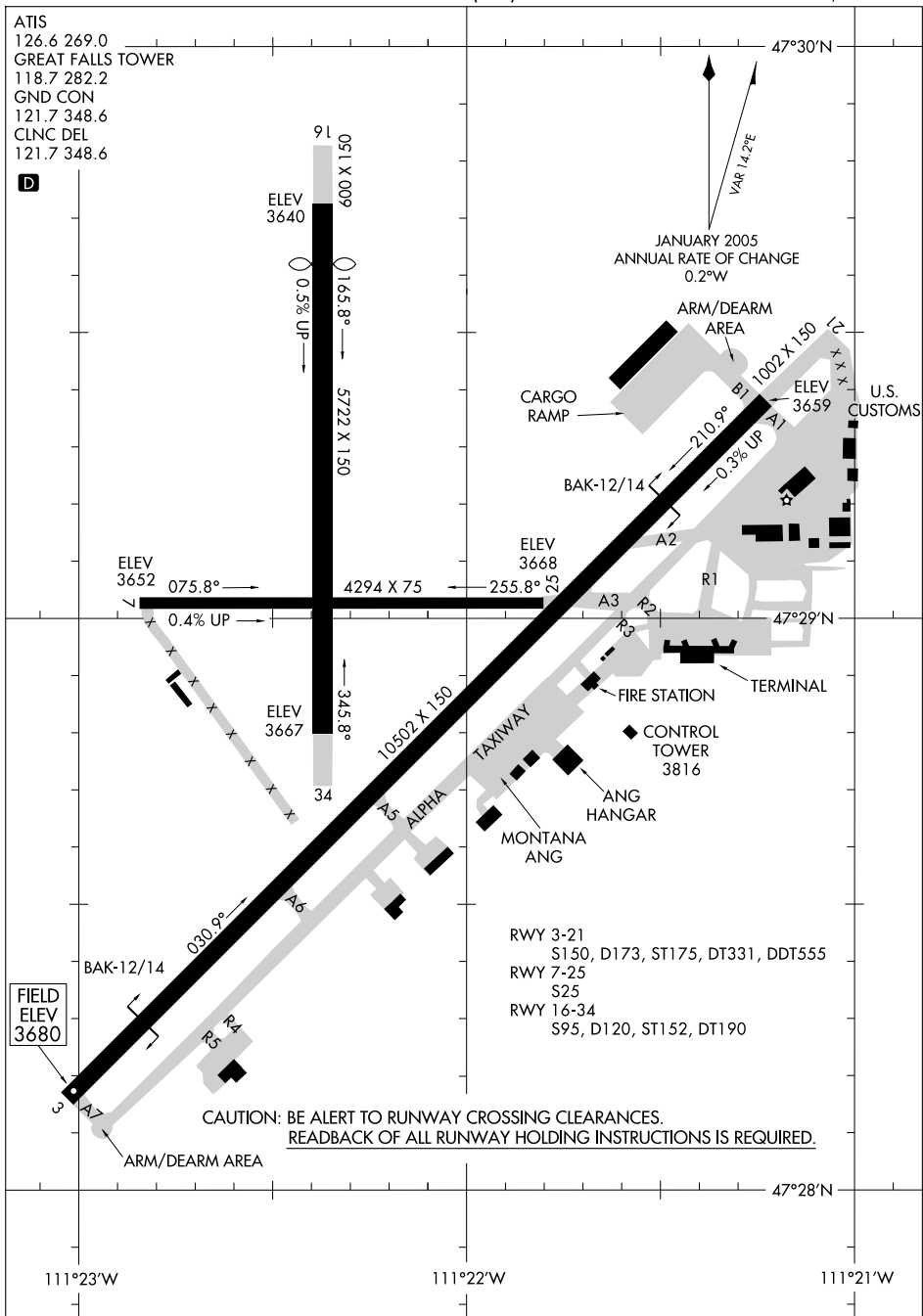
AIRPORT DIAGRAM

AL-177 (FAA)

GREAT FALLS INTL (GTF)
GREAT FALLS, MONTANA

ATIS
126.6 269.0
GREAT FALLS TOWER
118.7 282.2
GND CON
121.7 348.6
CLNC DEL
121.7 348.6

D



NW-1. 22 OCT 2009 to 19 NOV 2009

APP CRS
209°

Rwy Idg
TDZE
Apt Elev

10502
3669
3680

GPS RWY 21

GREAT FALLS INTL (GTF¹)

▼

▲ NA

MISSED APPROACH: Climbing right turn to 8000 direct NUPUQ WP and hold.

ATIS

126.6 269.0

GREAT FALLS APP CON

128.6 259.1

GREAT FALLS TOWER

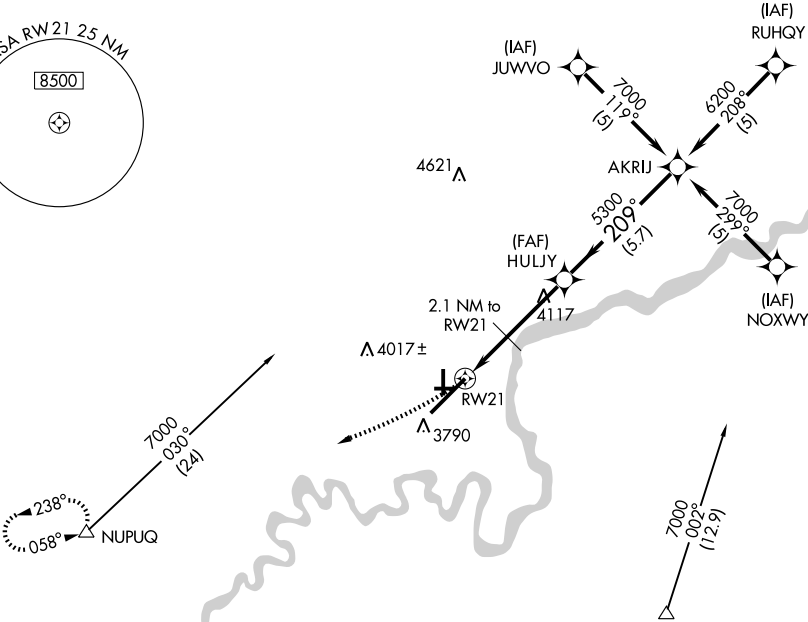
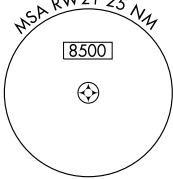
118.7 282.2

GND CON

121.7 348.6

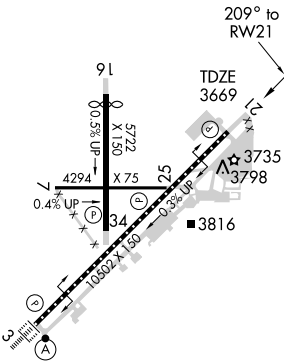
CLNC DEL

121.7 348.6



ELEV 3680

D



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21 and 16-34

8000		NUPUQ		VGS and descent angles not coincident.		AKRIJ	
RW21		1 NM to RW21		2.1 NM to RW21		HULJY	
4380		5300		6200		Procedure Turn NA	
1 NM		1.1 NM		2.9 NM		5.7 NM	
CATEGORY	A		B		C		D
S-21	4040-1		371 (400-1)		4040-1 1/4		371 (400-1 1/4)
CIRCLING	4120-1		4140-1		4140-1 1/2		4240-2
	440 (500-1)		460 (500-1)		460 (500-1 1/2)		560 (600-2)

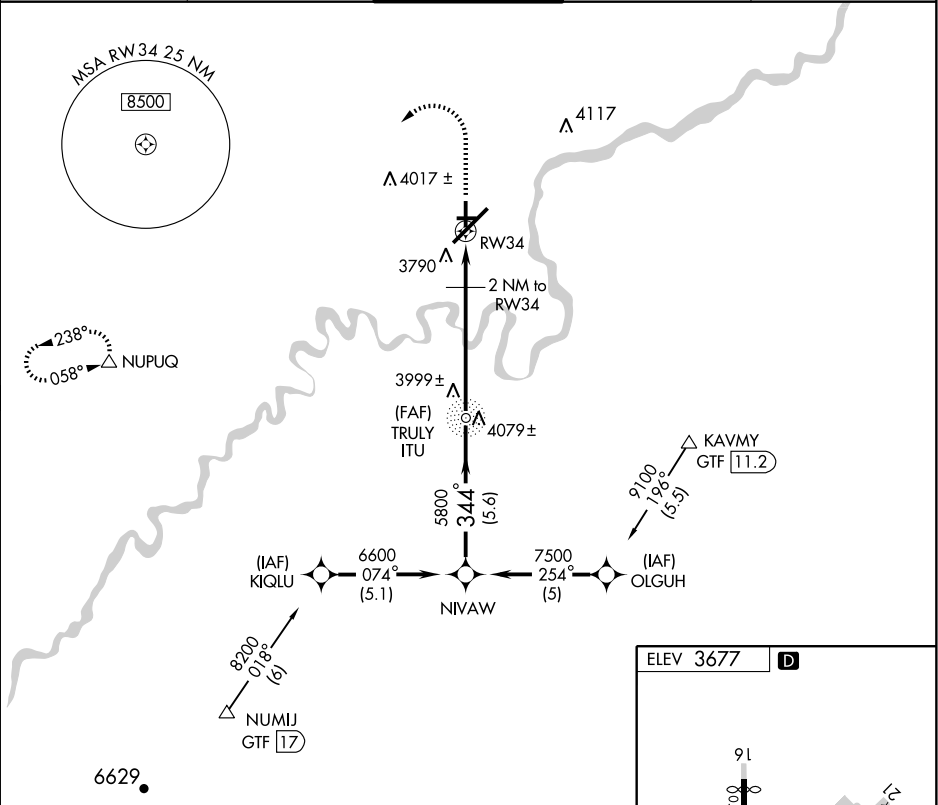
GPS RWY 34
GREAT FALLS INTL (GTF^o)

APP CRS	Rwy Idg	5070
344°	TDZE	3669
	Apt Elev	3677


NA

MISSED APPROACH: Climb to 4300, then climbing left turn to 8000 direct NUPUQ WP and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
---------------------	------------------------------------	----------------------------------	------------------------	-------------------------



NIVAW

6600

Procedure Turn NA

NDB

5800

2.96° TCH 50

4340

2 NM to RW34

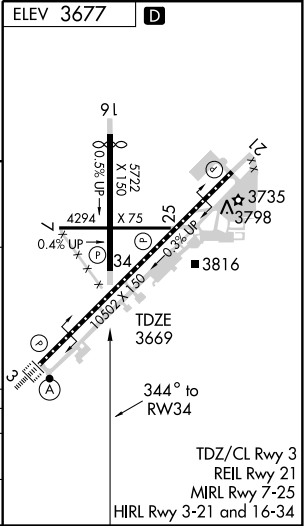
RW34

4300

8000

NUPUQ

CATEGORY	A	B	C	D
S-34	4100-1	431 (500-1)	4100-1 1/4 431 (500-1 1/4)	4100-1 1/2 431 (500-1 1/2)
CIRCLING	4120-1 443 (500-1)	4140-1 463 (500-1)	4140-1 1/2 463 (500-1 1/2)	4240-2 563 (600-2)



VORTAC GTF
115.1
Chan 98

APCH CR
029°

Rwy Idg	10,502
TDZE	3674
Arpt Elev	3680

JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

* When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

ALSF-2

MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

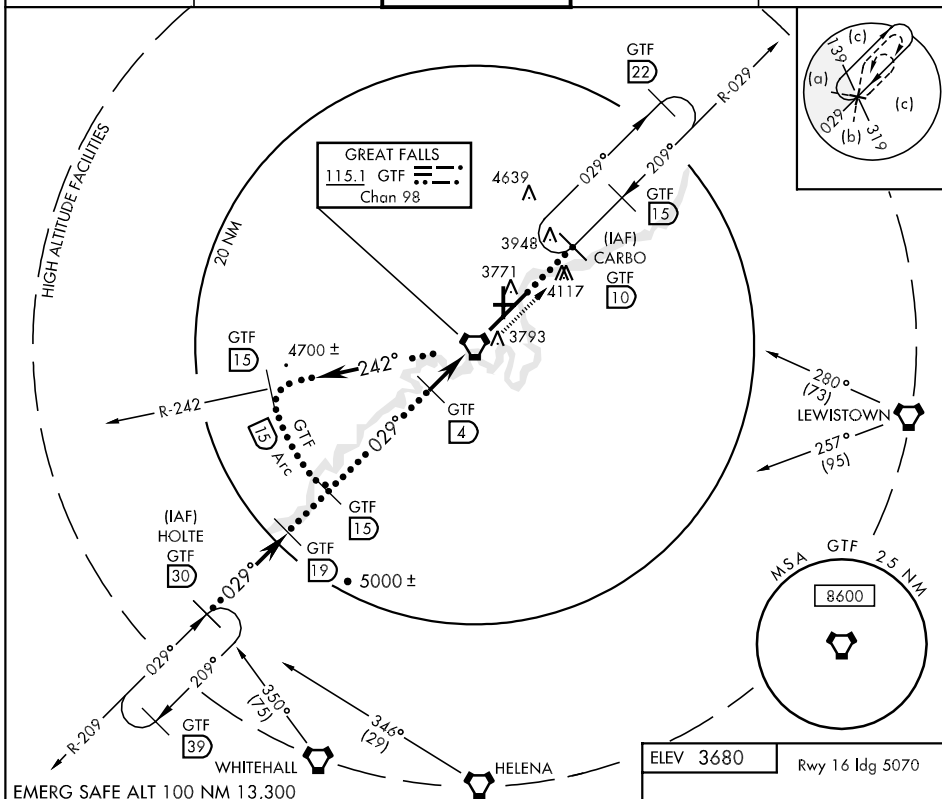
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

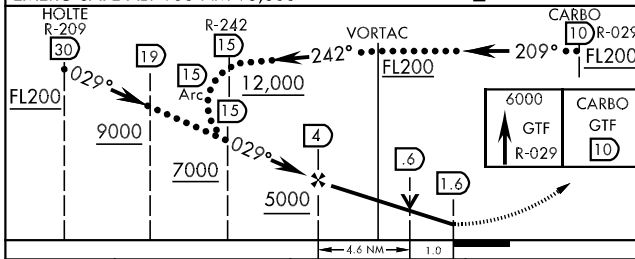
GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

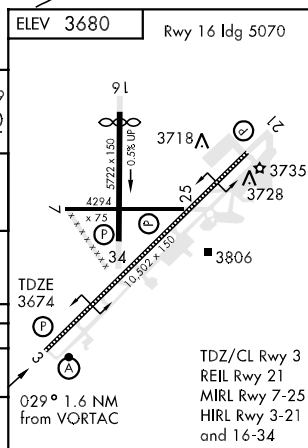
CLNC DEL
121.7 348.6



EMERG SAFE ALT 100 NM 13,300



CATEGORY	C	D	E
S-3 *	4060/24 386 (400-½)	4060/50	386 (400-1)
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)



GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

Amdt 2 09099

LILY OF THE VALLEY TAGALOG BAY

VORTAC GTF
115.1
Chan 98

APCH CRS
209°

Rwy Idg	10,502
TDZE	3665
Arpt Elev	3680

JAL-177 [USAF]

GREAT FALLS INTL (KGTF)

MISSED APPROACH: Climbing right turn to 6000 heading 350°, intercept GTF 12 DME Arc to ABORN 12 DME and hold.

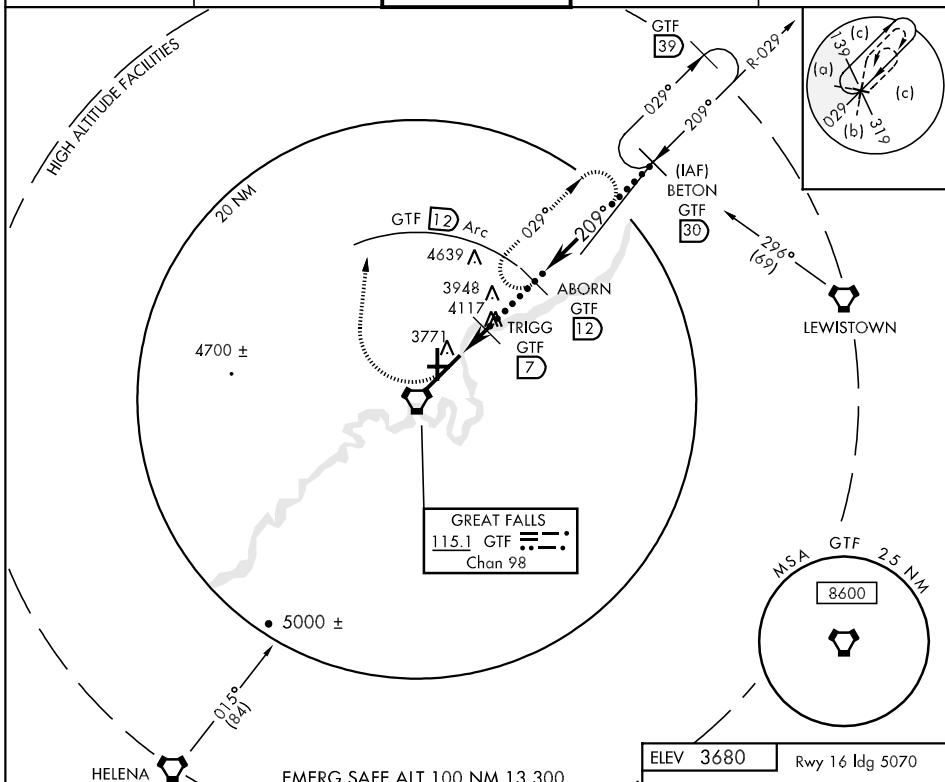
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



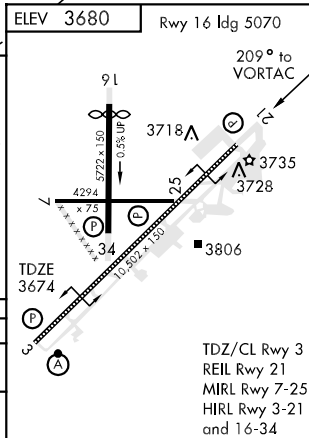
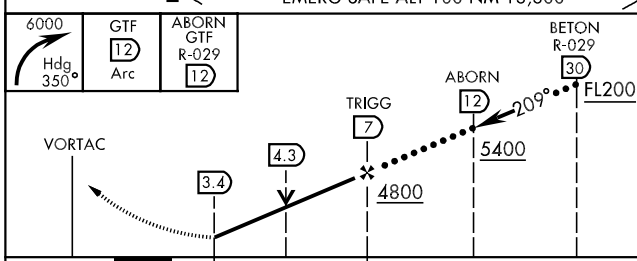
NW-1, 22 OCT 2009 to 19 NOV 2009

HELENA

EMERG SAFE ALT 100 NM 13,300

ELEV 3680

Rwy 16 Idg 5070



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21
and 16-34

GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

09099

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

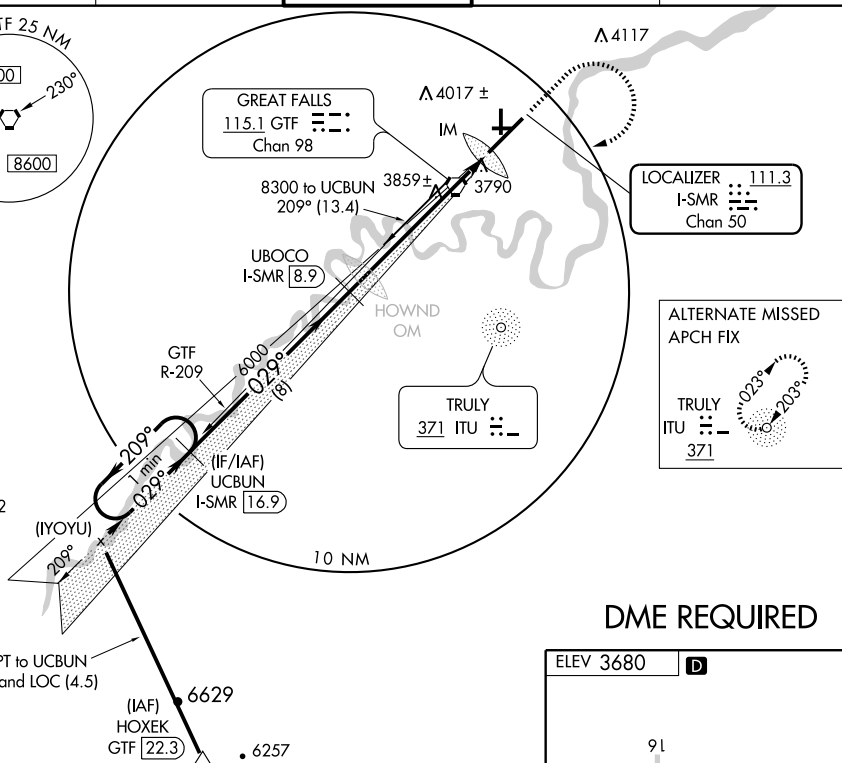
MSA GTF 25 NM

6100

230°

8600

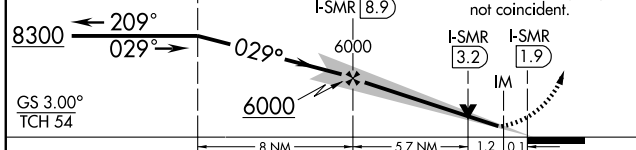
070°



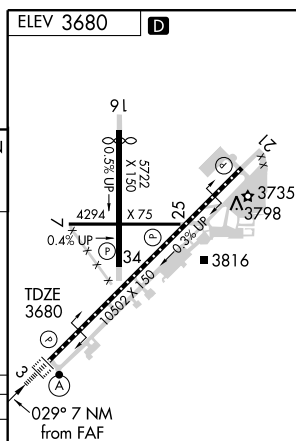
DME REQUIRED

UCBUN
I-SMP 169

VGSI and ILS glidepath
not coincident.



CATEGORY	A	B	C	D
S-ILS 3	3880/18 200 (200-½)			
S-LOC 3	4160/24	480 (500-½)	4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1	480 (500-1)	4160-1½ 480 (500-1½)	4240-2 560 (600-2)



TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21

HIRL Rwy 3-21 and 16-34

LOC/DME I-SMR <u>111.3</u> Chan 50	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
--	------------------------	--

ILS RWY 3 (CAT III)
GREAT FALLS INTL (GTF)



ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

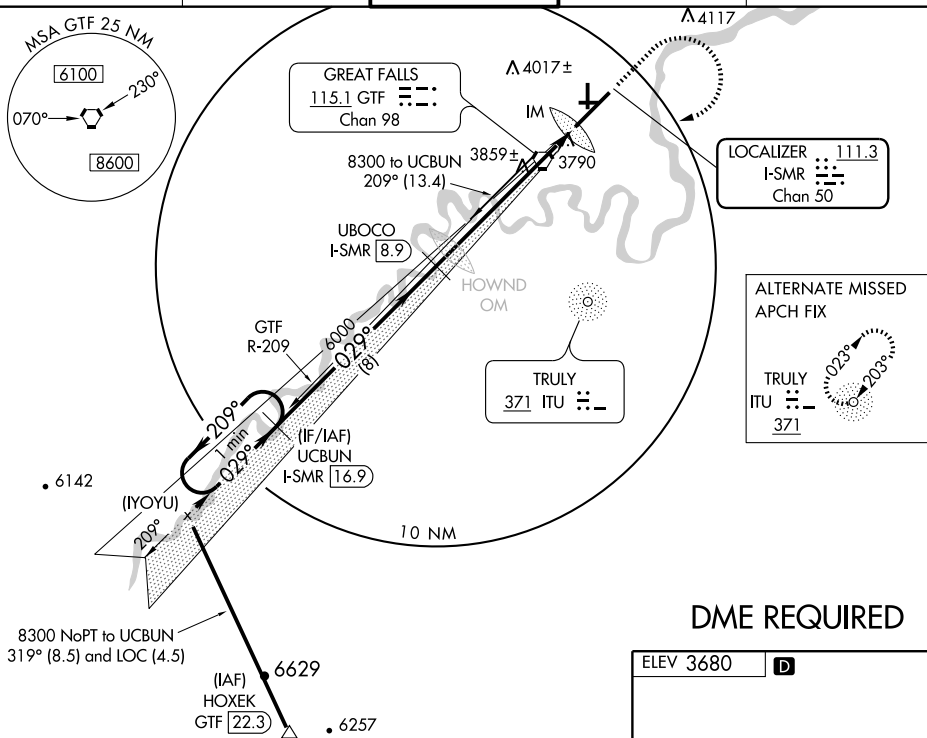
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



DME REQUIRED

ELEV 3680

D

Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMR 16.9

5000

8300

GTF

ICBI IN

TF
3.4

UBOCO
I-SMP 89

VGSI and ILS glidepath
not coincident.

$$\begin{array}{r} 8300 \\ \leftarrow 209 \\ \hline 029^\circ \rightarrow \end{array} \quad \leftarrow 029^\circ$$

GS 3.00°
TCH 54

6.9 NM

4

Д	3
---	---

CATEGORY
6 11 6 2

PL 107-273

5	1	5	5
5	1	5	3

III-

N/A

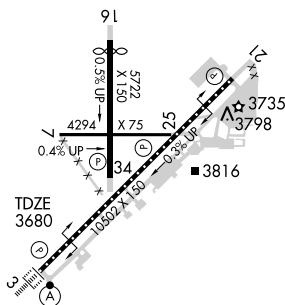
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V I

5

01



CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwy 3-21 and 16-34

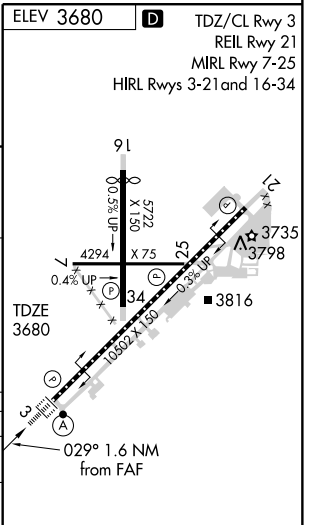
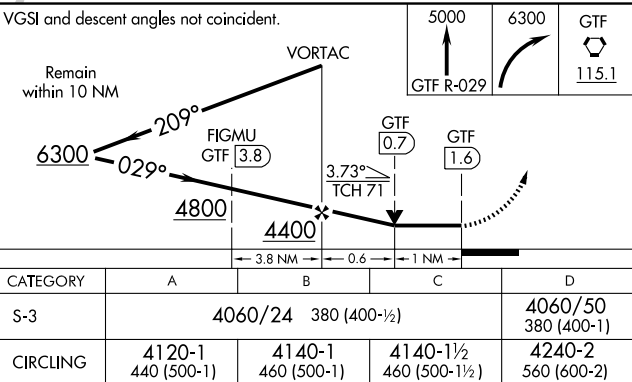
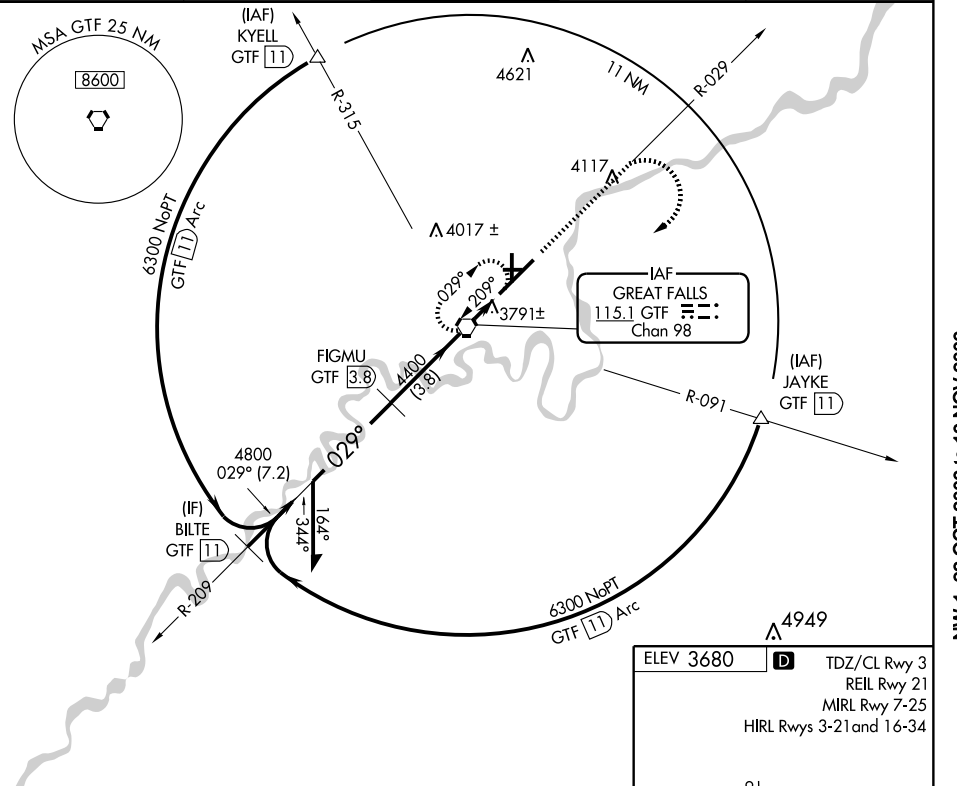
VORTAC GTF	APP CRS	Rwy Idg	10502
115.1	029°	TDZE	3680
Chan 98		Apt Elev	3680

For inoperative ALSF-2, increase S-3 Cat. D visibility to RVR 6000.

ALSF-2

MISSED APPROACH: Climb to 5000 via GTF VORTAC R-029 then climbing right turn to 6300 direct GTF VORTAC and hold, continue climb-in-hold to 6300.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6

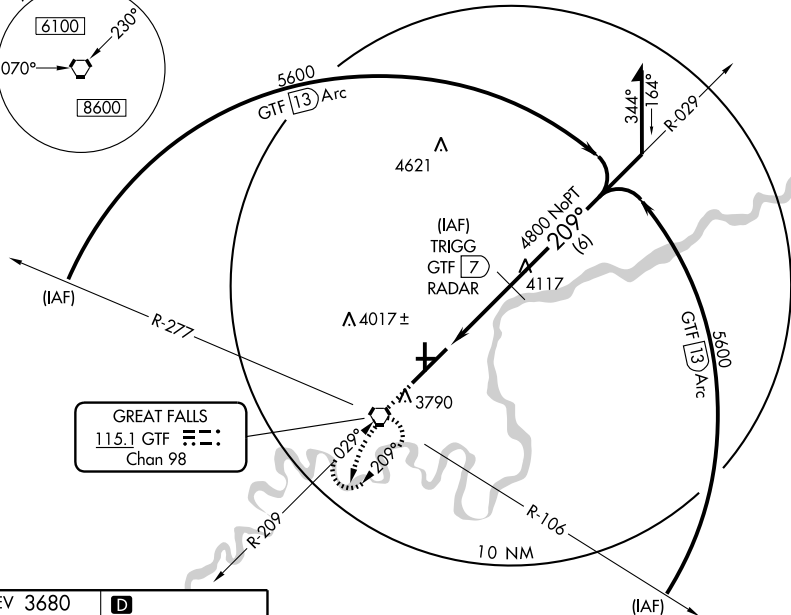
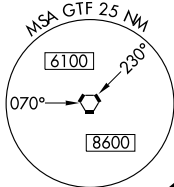


NW-1, 22 OCT 2009 to 19 NOV 2009

VOR RWY 21
GREAT FALLS INTL (GTF)

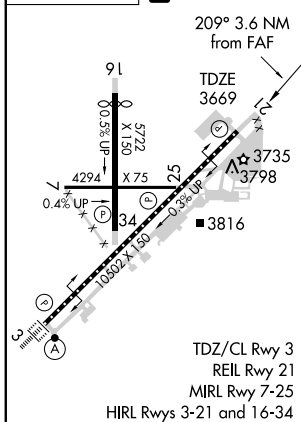
MISSED APPROACH: Climb direct to GTF VORTAC continue climb to 5500 in GTF VORTAC holding pattern.

CLNC DEL
121.7 348.6

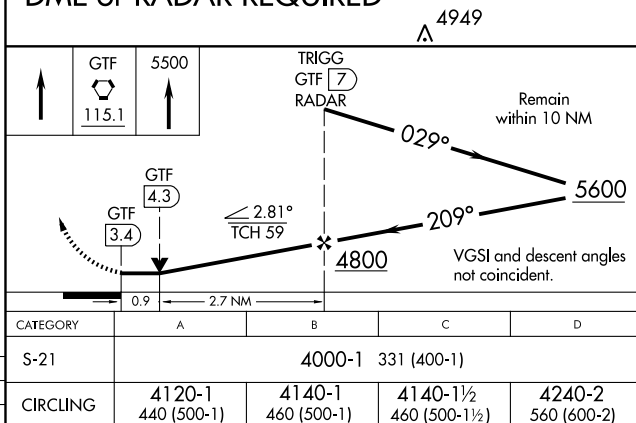


NW-1. 22 OCT 2009 to 19 NOV 2009

D



DME or RADAR REQUIRED



HAMEY ONE DEPARTURE (RNAV) (OBSTACLE)

SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 16: NA, Obstacles.

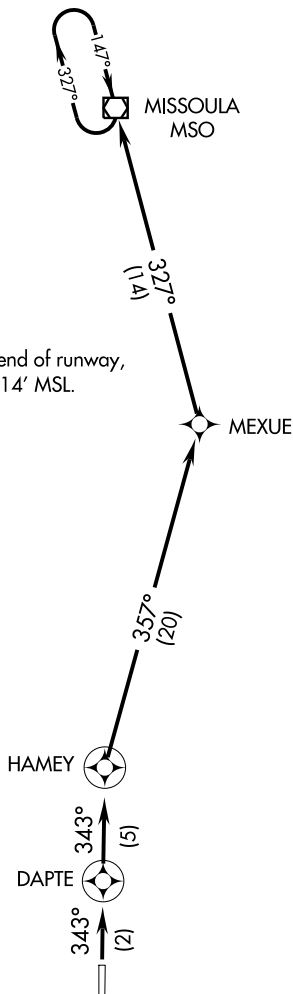
Rwy 34: Standard.

TAKE-OFF OBSTACLES

Rwy 34: tree 1044' from departure end of runway,
258' right of centerline, 80' AGL/3714' MSL.

Rwy 16: NA, Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Not authorized, Obstacles.

TAKE-OFF RWY 34: Climb to 9000 direct DAPTE WP, direct HAMEY WP, then via depicted route to MSO VOR/DME, Thence....

....all aircraft climb in MSO VOR/DME holding pattern (hold NW, RT, 147° inbound) to cross MSO VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS
163°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
3642

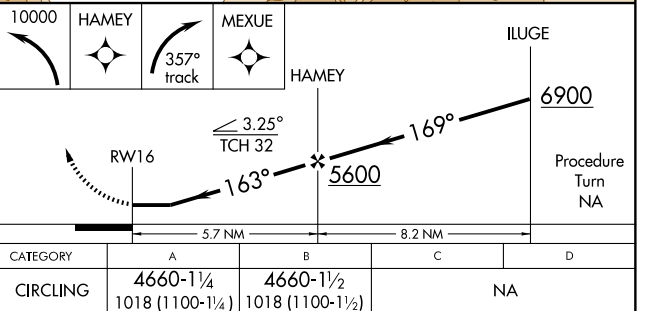
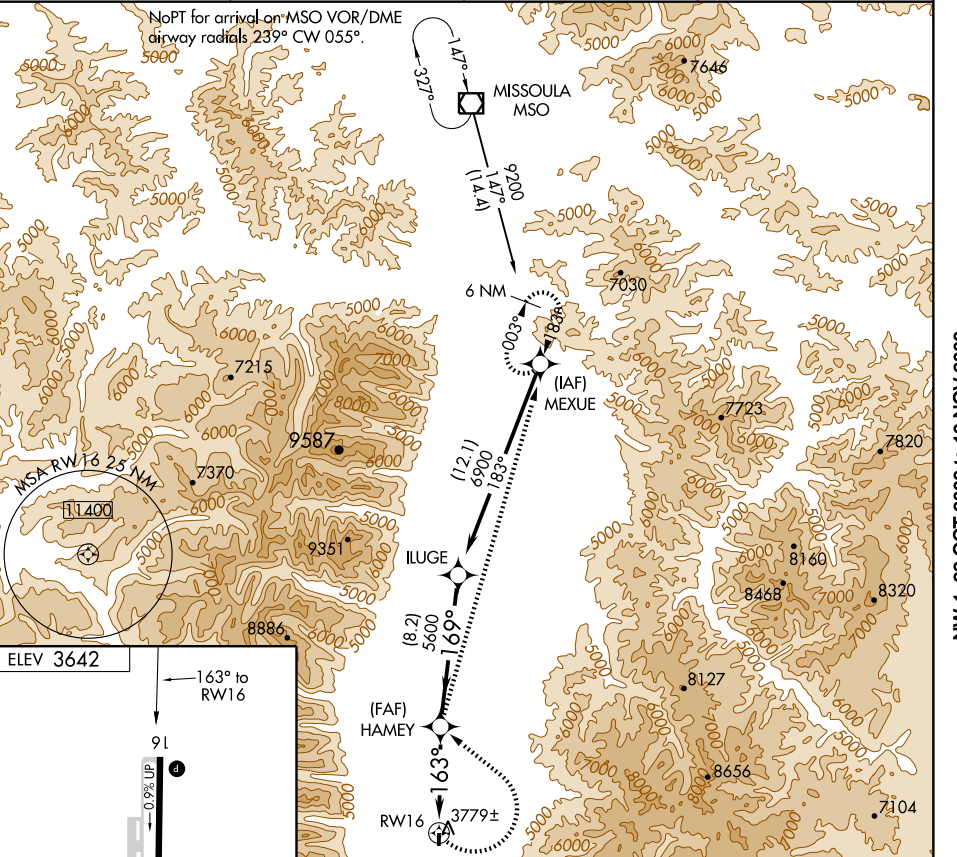
HAMILTON/ RAVALLI COUNTY (6S5)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 10000 direct HAMEY WP and right turn via 357° track to MEXUE WP and hold.

NA Obtain local altimeter setting on CTAF; when not received, procedure NA. Procedure NA at night.

AWOS-A 119.825	SPOKANE APP CON* 124.9 298.95	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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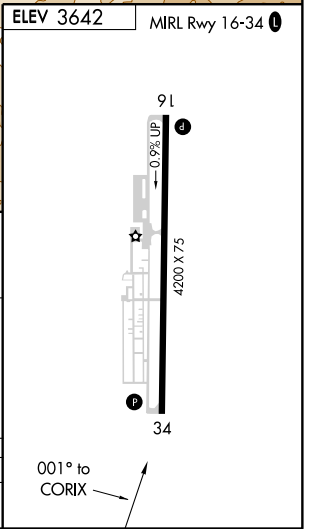
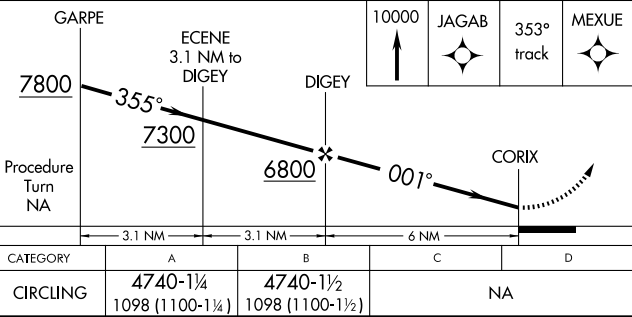
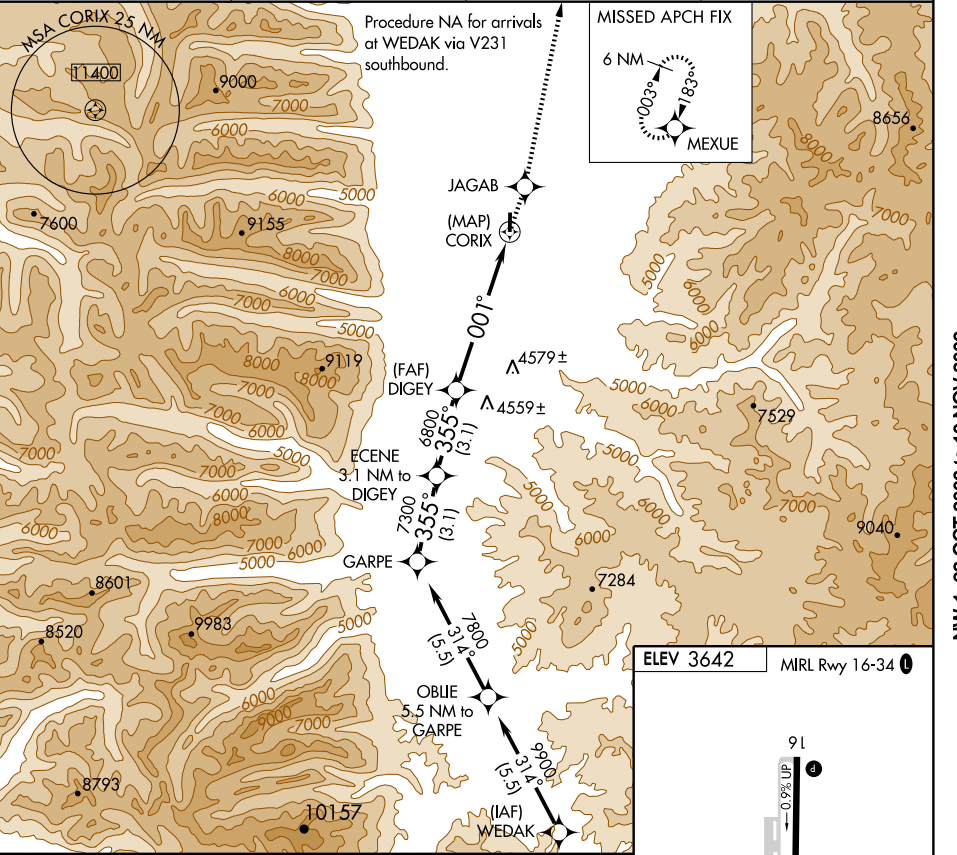
▼

▲ NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Obtain local altimeter setting on CTAF; when not received, procedure NA.
Procedure NA at night.

MISSED APPROACH: Climb to 10000 direct JAGAB WP and via 353° track to MEXUE WP and hold.

AWOS-A 119.825	SPOKANE APP CON★ 124.9 298.95	SALT LAKE CITY CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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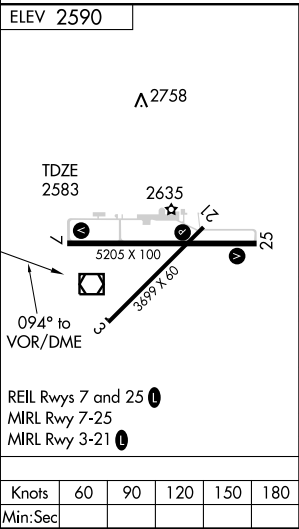
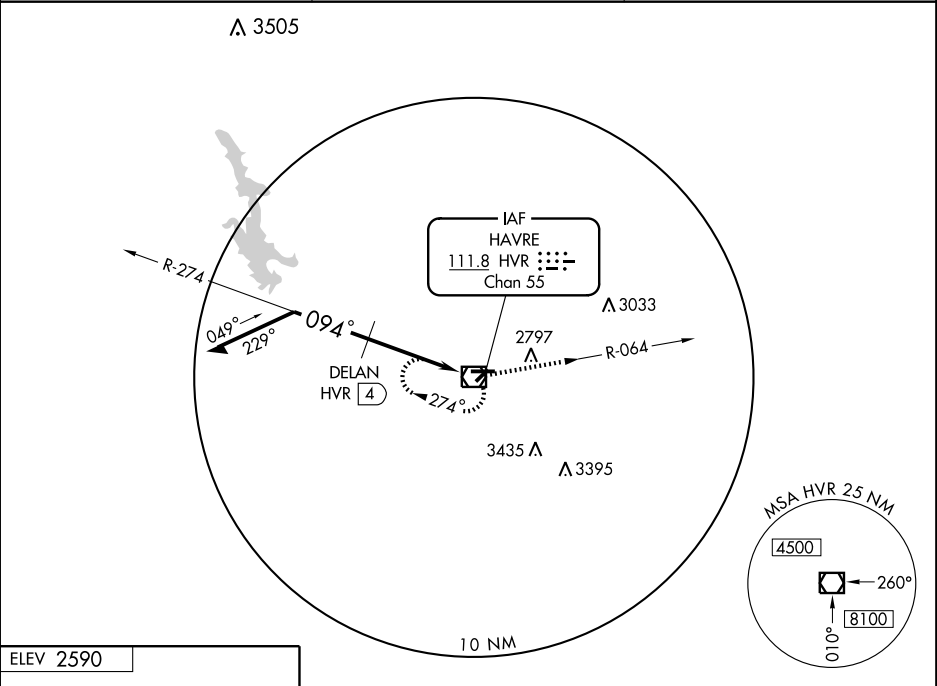


VOR/DME HVR 111.8 Chan 55	APP CRS 094°	Rwy Idg TDZE Apt Elev	5205 2583 2590
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VOR or GPS RWY 7
HAVRE CITY-COUNTY(HVR)

 Activate MIRL Rwy 31-21 and VASI Rwy 21-CTAF.	MISSED APPROACH: Climb to 4500 via R-064 then direct HVR VOR/DME and hold.
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ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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Remain within 10 NM		VOR/DME		4500 HVR R-064	HVR 111.8
4500		274°	DELAN HVR (4)	094°	3280
CATEGORY		A	B	C	D
S-7		3280-1	697 (700-1)	3280-2 697 (700-2)	3280-2½ 697 (700-2½)
CIRCLING		3280-1	692 (700-1)	3280-2 692 (700-2)	3280-2½ 692 (700-2½)
DME MINIMUMS					
S-7		3020-1	437 (500-1)	3020-1½ 437 (500-1½)	3020-1½ 437 (500-1½)
CIRCLING		3060-1	472 (500-1)	3060-1½ 472 (500-1½)	3140-2 552 (600-2)

VOR/DME HVR

111.8

Chan 55

APP CRS

244°

Rwy Idg

5205

TDZE

2584

Apt Elev

2590

VOR or GPS RWY 25

HAVRE CITY-COUNTY (HVR)

T

A

MISSED APPROACH: Climb to 4500 via HVR R-244 then direct HVR VOR/DME and hold.

ASOS

135.225

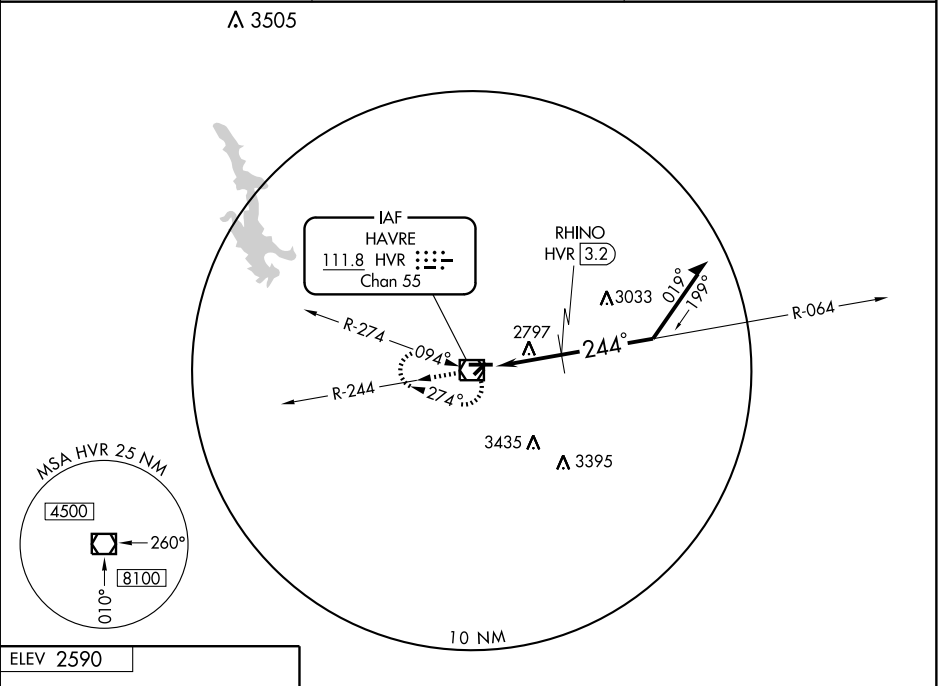
GREAT FALLS RADIO

123.65

UNICOM

122.8 (CTAF)

0



ELEV 2590

Λ 2758

The chart shows the intersection of Rwy 7 and Rwy 25. It includes the TDZE (Touchdown Zone Elevation) of 2584, the runway width of 5205 X 100, and the runway length of 3699 X 60. The chart also shows the intersection of Rwy 7 and Rwy 25.

REIL Rwys 7 and 25

MIRL Rwy 7-25

MIRL Rwy 3-21

Knots	60	90	120	150	180
Min:Sec					

4500

HVR

HVR R-244

111.8

VOR/DME

064°

244°

4500

3520

3.2 NM

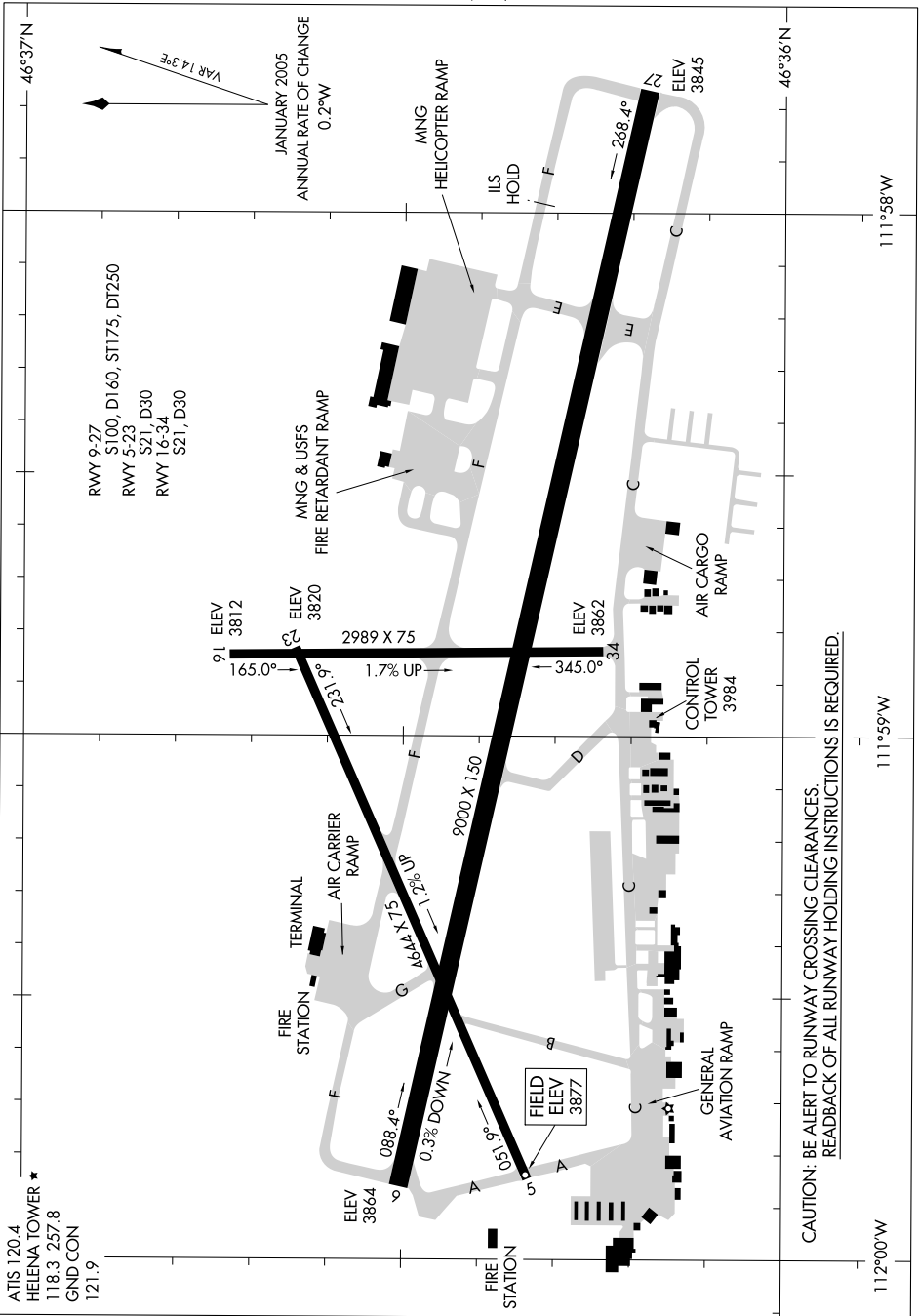
Remain within 10 NM

CATEGORY	A	B	C	D
S-25	3520-2¼	936 (1000-1¼)	3520-2¾	3520-3
CIRCLING	3520-1¼	932 (1000-1¼)	3520-2¾	3520-3
RHINO FIX MINIMUMS				
S-25	3060-1	476 (500-1)	3060-1¼	3060-1½
CIRCLING	3060-1	472 (500-1)	3060-1½	3140-2

AIRPORT DIAGRAM

AL-192 (FAA)

HELENA RGNL (HNLN)
HELENA, MONTANA



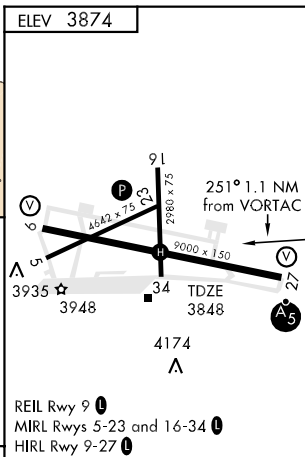
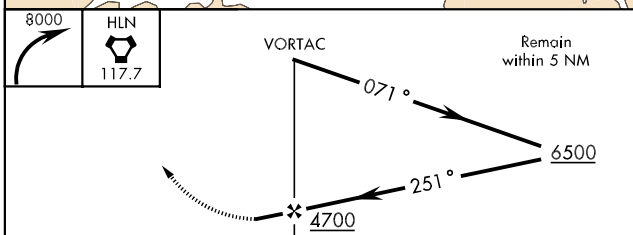
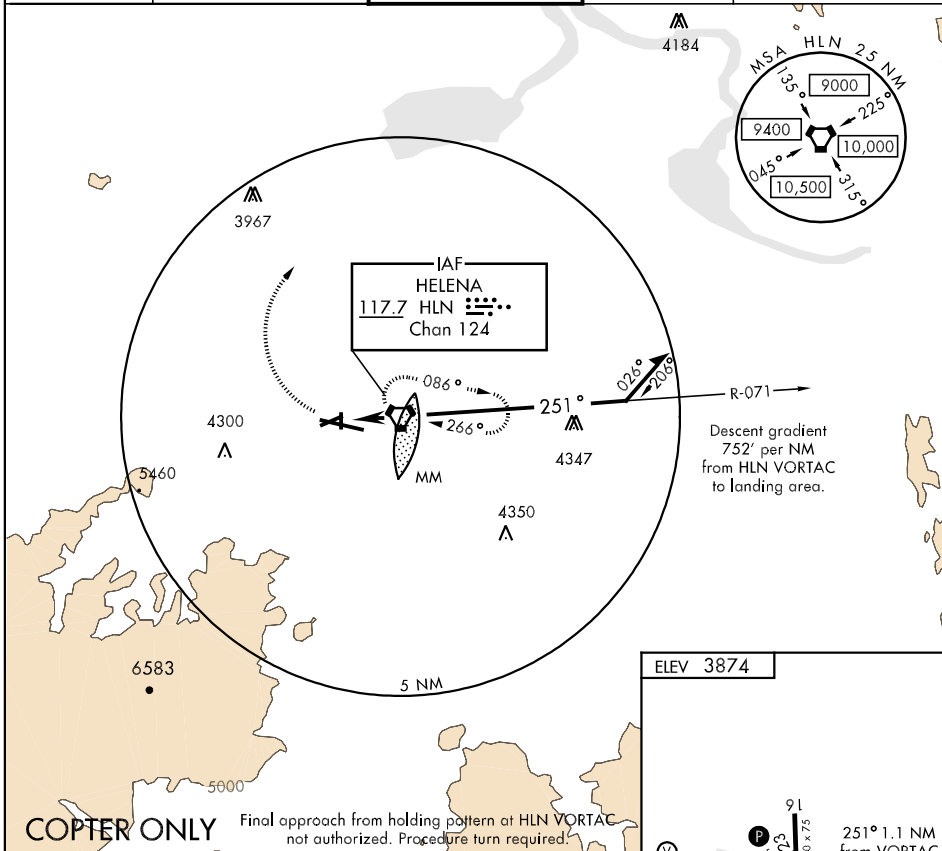
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

VORTAC HLN
117.7
Chan 124APCH CRS
251°Rwy Idg
TDZE
Arpt Elev 3874

AL-192 [USA]

HELENA REGIONAL (KHLN)

NA when tower clsd.

MISSED APPROACH: Climbing right turn to
8000 direct HLN VORTAC and hold.ATIS ★
120.4HELENA APP CON
119.5 229.4HELENA TOWER ★
118.3 (CTAF) 0 257.8GND CON
121.9UNICOM
122.95

CATEGORY	COPTER
H-251°	4260-½ 412 (400-½)

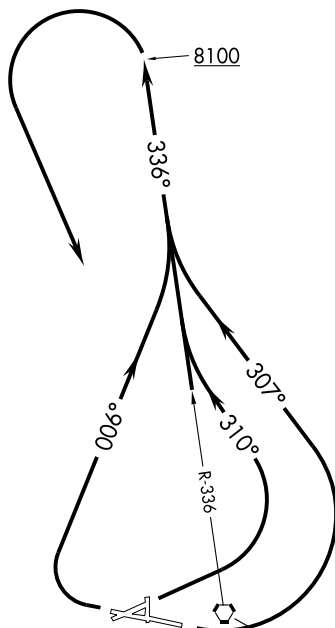
FAF to MAP 1.1 NM					
Knots	45	60	75	90	105
Min:Sec	1:28	1:06	0:53	0:44	0:37

HELENA THREE DEPARTURE

SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4
SALT LAKE CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 5: Standard with minimum climb of 250 feet per NM to 8100.
Rwy 9: Standard with minimum climb of 240 feet per NM to 8100.
Rwys 16, 23: NA- obstacles.
Rwy 27: Standard with minimum climb of 390 feet per NM to 8100.
Rwy 34: NA- ATC.

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 5: Ground beginning 5' from DER, 495' right of centerline, up to 3826' MSL.
Fence beginning 423' from DER, 331' right of centerline, up to 10' AGL/ 3832' MSL.
Rwy 27: Building 1593' from DER, 731' left of centerline, 58' AGL/ 6385' MSL.
Ground beginning 101' from DER, 346' left of centerline, up to 3871' MSL.
Tree 1567' from DER, 616' left of centerline, 47' AGL/ 3906' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climbing left turn heading 310° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 9: Climbing left turn heading 307° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 27: Climbing right turn heading 006° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

LOC I-HLN	APP CRS	Rwy Idg	9000
110.1	267°	TDZE	3852
		Apt Elev	3877

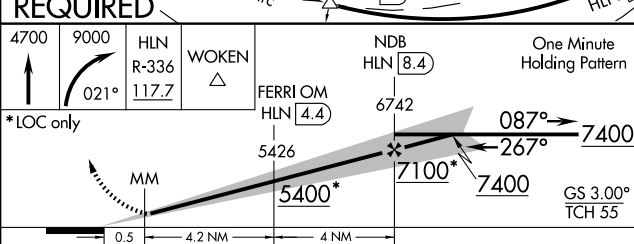
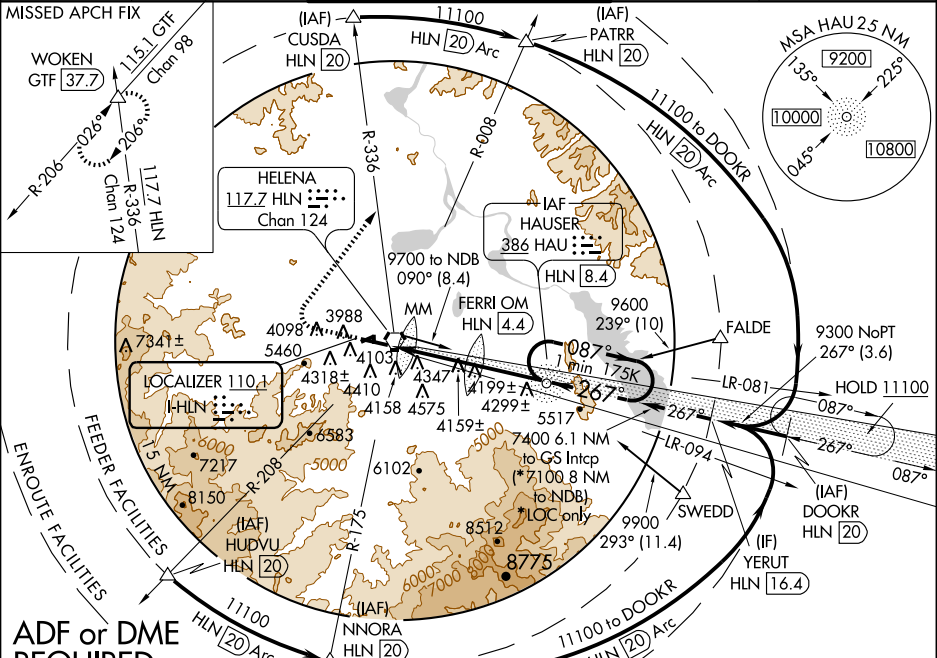
ILS or LOC Y RWY 27
HELENA RGNL (HLN)

⚠ Circling NA for Cats. D and E south of Rwy 9-27. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-ILS 27 all Cats. visibility to 2 miles, S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 2½ miles. DME arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only.

MALSR
A5

MISSED APPROACH: Climb to 4700 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON * 119.5 229.4	HELENA TOWER * 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D	E
S-ILS 27	4402-1½ 550 (600-1½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS *					
S-LOC 27	4560-½ 708 (700-½)	4560-1½ 708 (700-1½)	4560-1¾ 708 (700-1¾)	4560-2 708 (700-2)	
CIRCLING	4640-1 763 (800-1)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)	

ELEV 3877

REIL Rwy 9
MIRL Rlys 5-23 and 16-34
HIRL Rwy 9-27

FAF to MAP 8.7 NM

Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

LOC I-HLN <u>110.1</u>	APP CRS 267°	Rwy Idg 9000 TDZE 3852 Apt Elev 3877
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ILS or LOC Z RWY 27

HELENA RGNL (HLN)

- T** Circling NA for Cats. D and E south of Rwy 9-27. DME Arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only. Inoperative table does not apply to S-LOC 27 Cats. A-B. **A** For inoperative MALSR, increase S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 3 miles.



MISSED APPROACH: Climb to 4400 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX

Missed approach obstructions require a minimum climb gradient of 320 feet/NM. If unable to meet rate of climb, see ILS or LOC Y RWY 27.

ENROUTE FACILITIES

ADF or DME
REQUIRED

4400 ↑

9000 ↻ 021°

HLN R-336 117.7

WOKEN △

FERRI OM HLN 4.4

NDB HLN 8.4

One Minute Holding Pattern

*LOC only

MM

5426

6742

087°

267°

7400

5400*

7100*

7400

GS 3.00° TCH 55

0.5 4.2 NM 4 NM

CATEGORY	A	B	C	D	E
S-ILS 27	4052-½ 200 (200-½)				
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)		
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS*					
S-LOC 27	4420-½ 568 (600-½)		4420-1 568 (600-1)	4420-1¼ 568 (600-1¼)	4420-1½ 568 (600-1½)
CIRCLING	4640-1 763 (800-1)	4640-1¼ 763 (800-1¼)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)

ELEV 3877

REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

FAF to MAP 8.7 NM					
Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

LOC I-HLN <u>110.1</u>	APP CRS 087°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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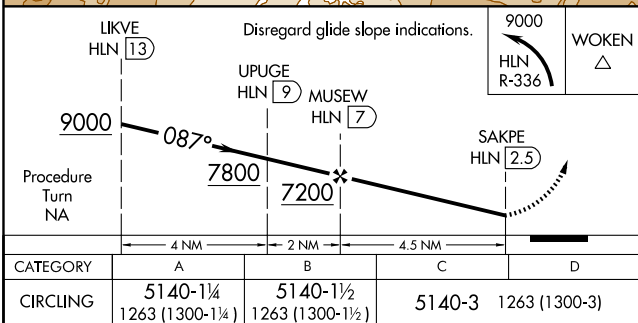
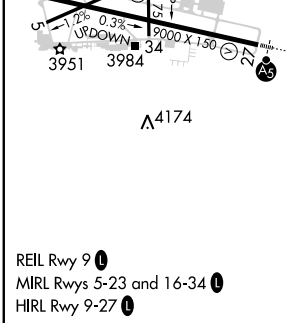
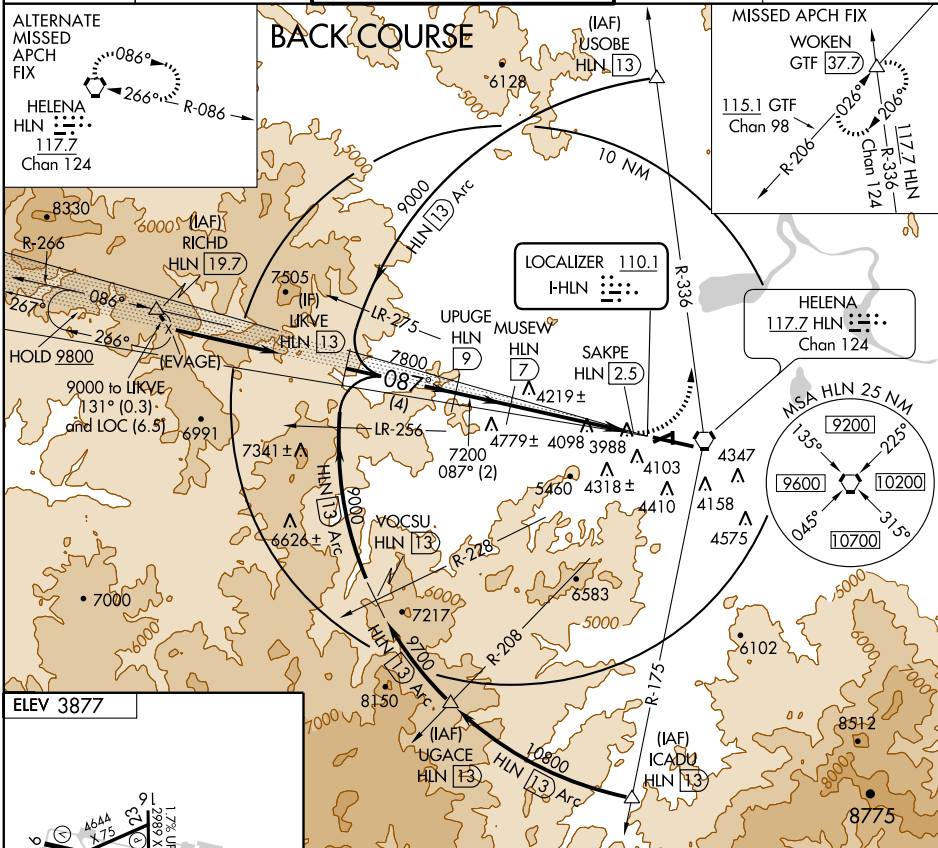
LOC/DME BC-C
HELENA RGNL (HLN)

HELENA RGNL (HLN)

T DME from HLN VORTAC, simultaneous reception of I-HLN
A and HLN DME required.
Circling NA south of Rwy 9-27 for Cat D.

MISSED APPROACH: Climbing left turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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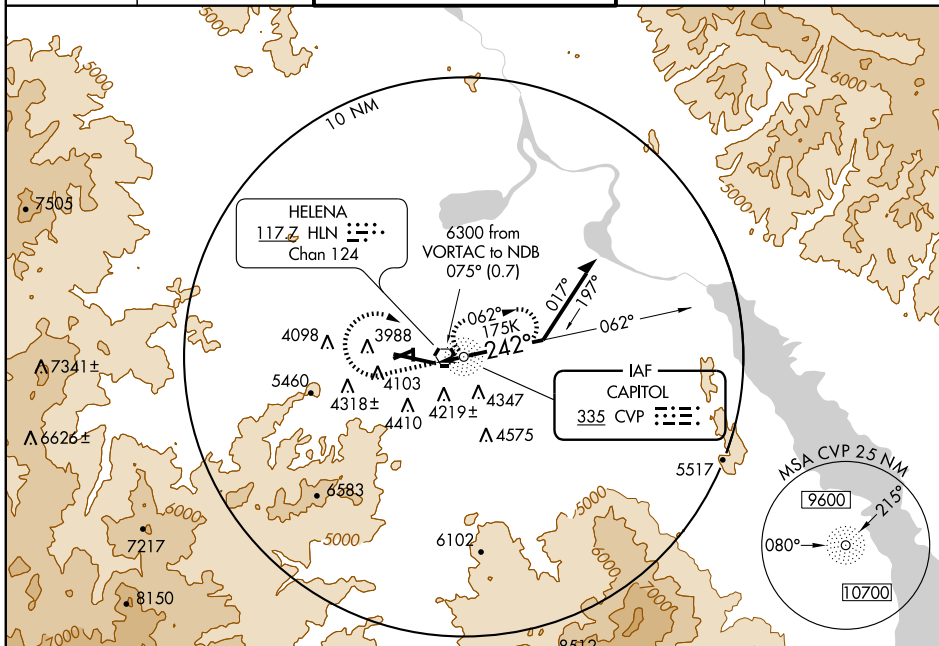
NDB CVP 335	APP CRS 242°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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NDB-D
HELENA RGNL (HLN)



MISSED APPROACH: Climb to 5200, then climbing right turn to 6400 direct CVP NDB and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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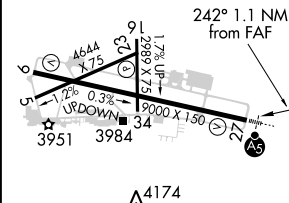
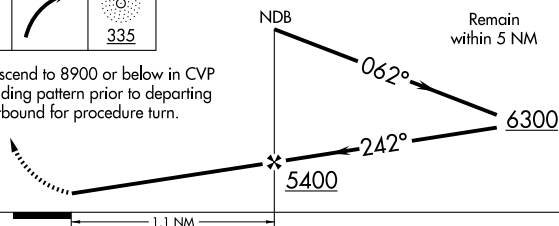


NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 3877



Descend to 8900 or below in CVP holding pattern prior to departing outbound for procedure turn.



REIL Rwy 9 **L**
MIRL Rwys 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	4980-1¼ 1103 (1200-1¼)		NA		Knots	60	90	120	150	180
					Min:Sec	1:06	0:44	0:33	0:26	0:22

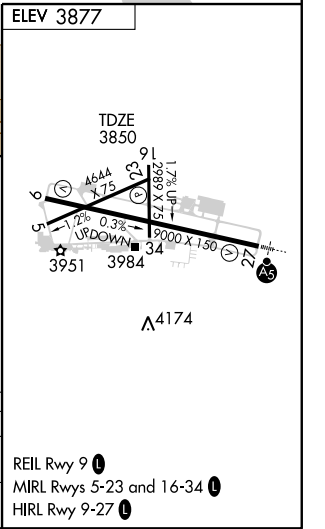
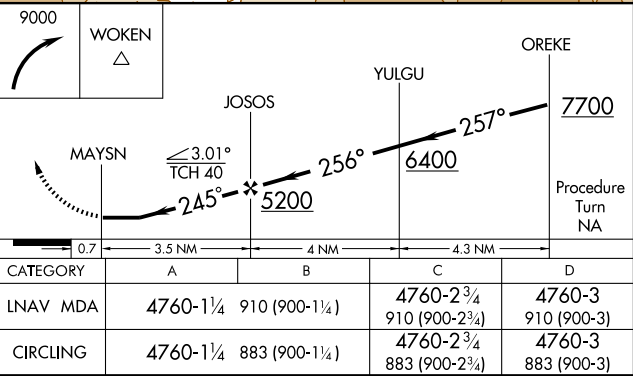
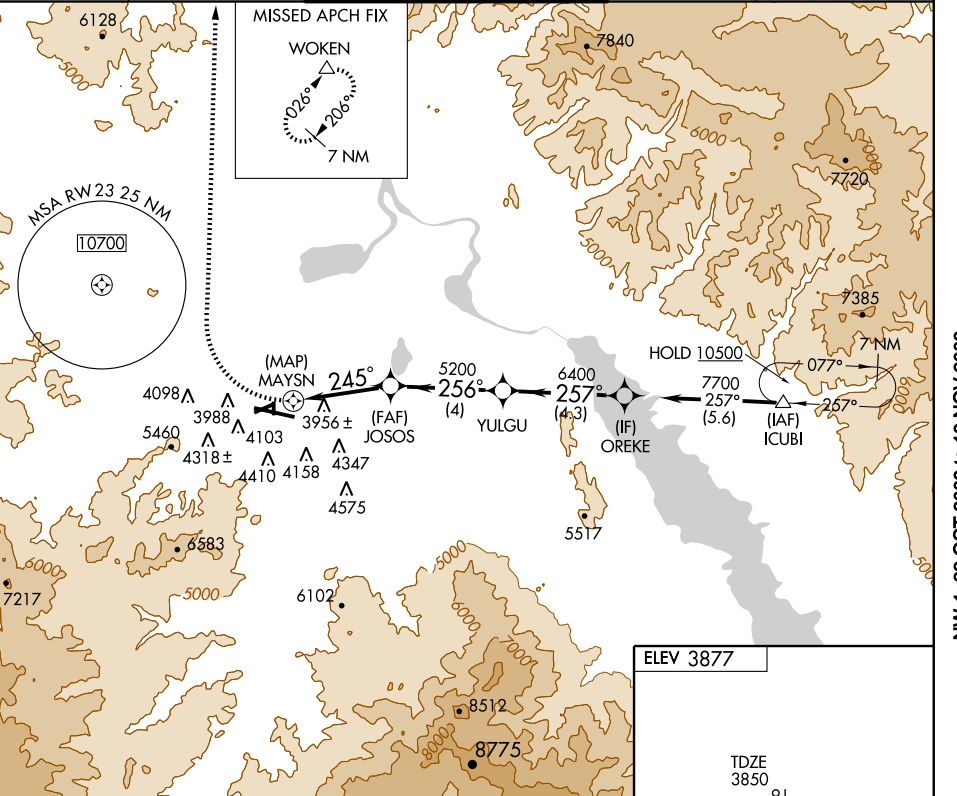
▼

▲

Circling NA for Cat D south of Rwy 9/27.
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct WOKEN and hold, continue climb-in-hold to 9000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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WAAS CH 69405 W27A	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (GPS) X RWY 27

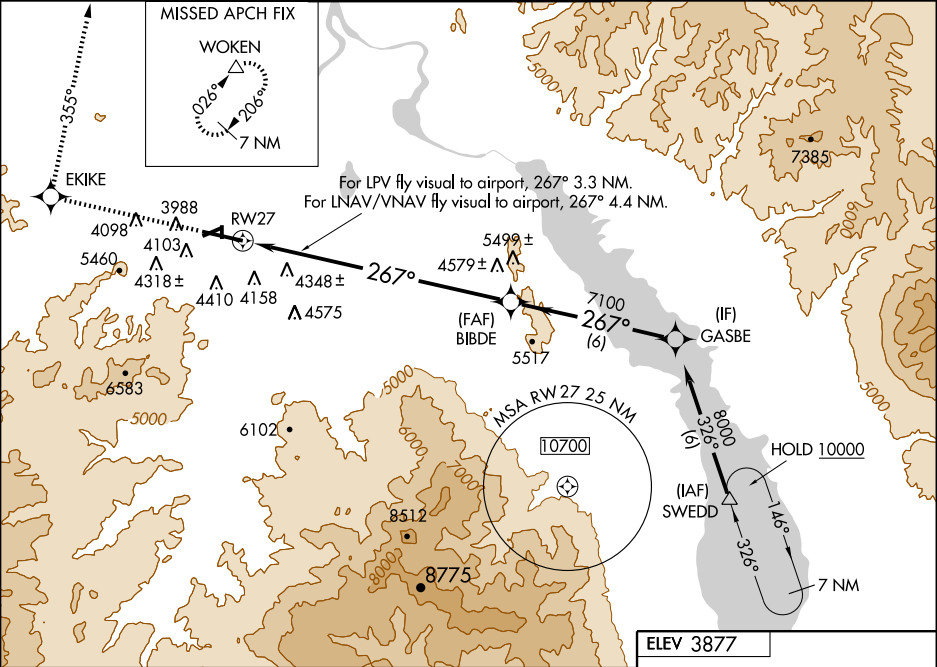
HELENA RGNL (HLN)

⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F). DME/DME RNP: 0.3 NA.
Inoperative table does not apply to LNAV Cats A-B.

MALSR

MISSED APPROACH: Climb to 9000
direct EKIKE and via 355° track
to WOKEN and hold.

ATIS 120.4	HELENA APP CON* 119.5 229.4	HELENA TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

Procedure Turn NA

9000 ↑ EKIKE 355° track WOKEN △

LPV, fly visual, 267° 3.3 NM.
LNAV/VNAV, fly visual 267° 4.4 NM.

RW27

*4.8 NM to RW27

*LNAV only

BIBDE 7100

GASBE 8000

GS 3.00° TCH 55

△4174

TDZE 3852

267° to RW27

UP 1.7% 0.3% DOWN 1.2%

91 2988 X 75 34 3951 3984

CATEGORY	A	B	C	D
LPV DA	4965-2 1113 (1100-2)		4965-3 1113 (1100-3)	
LNAV/VNAV DA	5289-2 1437 (1500-2)		5289-3 1437 (1500-3)	
LNAV MDA	5440-1¼ 1588 (1600-1¼)	5440-1½ 1588 (1600-1½)	5440-2½ 1588 (1600-2½)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9 **Ⓛ**
MIRL Rwy 5-23 and 16-34 **Ⓛ**
HIRL Rwy 9-27 **Ⓛ**

APP CRS	Rwy Idg
087°	TDZE
	3864
	Apt Elev
	3877

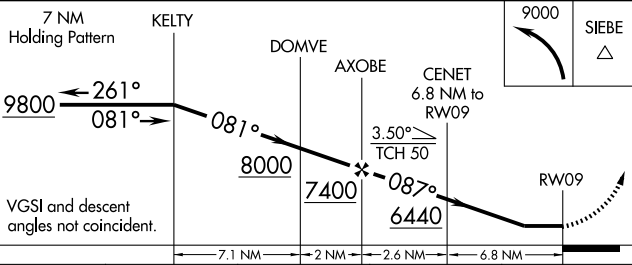
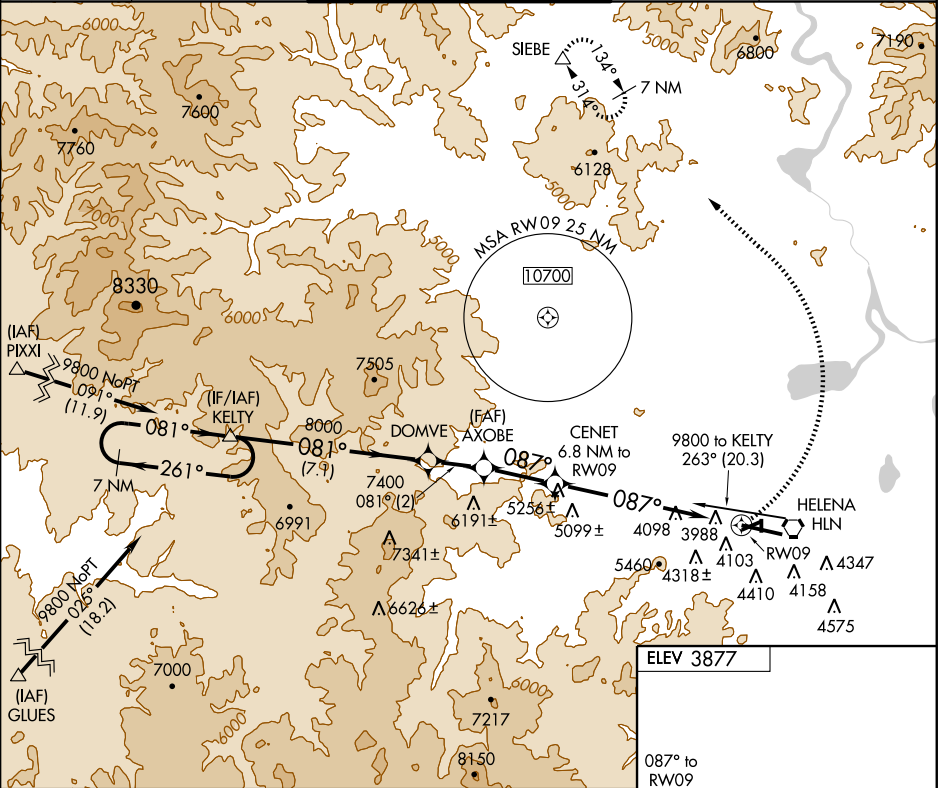
RNAV (GPS) Y RWY 9

HELENA RGNL (HLN)

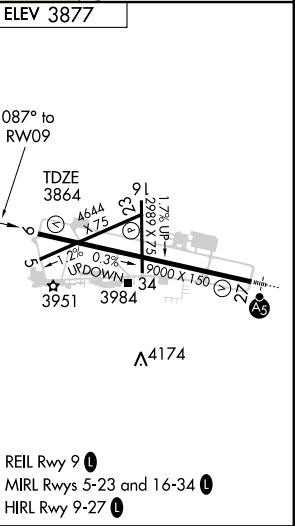
⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct SIEBE and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95



CATEGORY	A	B	C	D
LNAV MDA	5440-1¼ 1576 (1600-1¼)	5440-1½ 1576 (1600-1½)	5440-3 1576 (1600-3)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	



Procedure NA for arrivals on HIA VORTAC for arrivals on HIA VORTAC 276 CW 185 and for arrivals on HLN VORTAC airway radials 009 CW 265 and for arrivals at SUZZY via V343 westbound.

REQD (RNP 0.50)
 (IAF) ELENA
 HLN

3956
 4347 (8)
 4575
 5311
 5300
 5317 (IF)
 BOSCA

(FAF) JEXUT
 267° (S)
 267°

(IAF) URELE
 (RNP 0.50)
 9300
 169° (21)
 7200
 222° (6.5)
 7385
 9000
 223° (7.3)
 (IAF) LINGE
 (RNP 0.50)
 (IAF) HEXOL
 (RNP 0.50)
 9000
 254° (15.2)

FALDE
 Max 240 KIAS
 via URELE

CEMLI
 8512
 8775
 9440
 10000
 10000
 10000

SI

DULCA
 Max 230 KIAS
 (6.4)
 9000

FAVTA
 Max 230 KIAS
 9100
 027° (20.3)

MSA RW 27 25 NM
 10700

WHITEHALL
 HIA
 (RF REQD)
 (RNP 0.50)
 10500
 022° (18.4)

SUZZY
 (RF REQD)
 (RNP 0.50)

SWEDD
 (RNP 0.50)
 7200
 308° (7.8)
 7200
 115° (15.5)

13000
 267°
 SAKPE
 267° track
 MUSEW

JEXUT
 6500
 7200
 267°
 6500

BOSCA
 Procedure
 Turn NA
 GP 3.00°
 TCH 55

RW27

8 NM
 5 NM

CATEGORY	A	B	C	D
RNP 0.22 DA*	4133-1/2	281 (300-1/2)		
RNP 0.30 DA**	4287-1	435 (500-1)		

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (RNP) Z RWY 27

HELENA RGNL (HLN)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). *Missed approach requires minimum climb of 295 feet per NM to 7900. **Missed approach requires minimum climb of 290 feet per NM to 7300. ***Missed approach requires minimum climb of 405 feet per NM to 6300. For inoperative MALSR, increase RNP 0.18* visibility to 1, RNP 0.22** visibility to 1¼, and RNP 0.30*** visibility to 1½. Inoperative table does not apply to RNP 0.30.



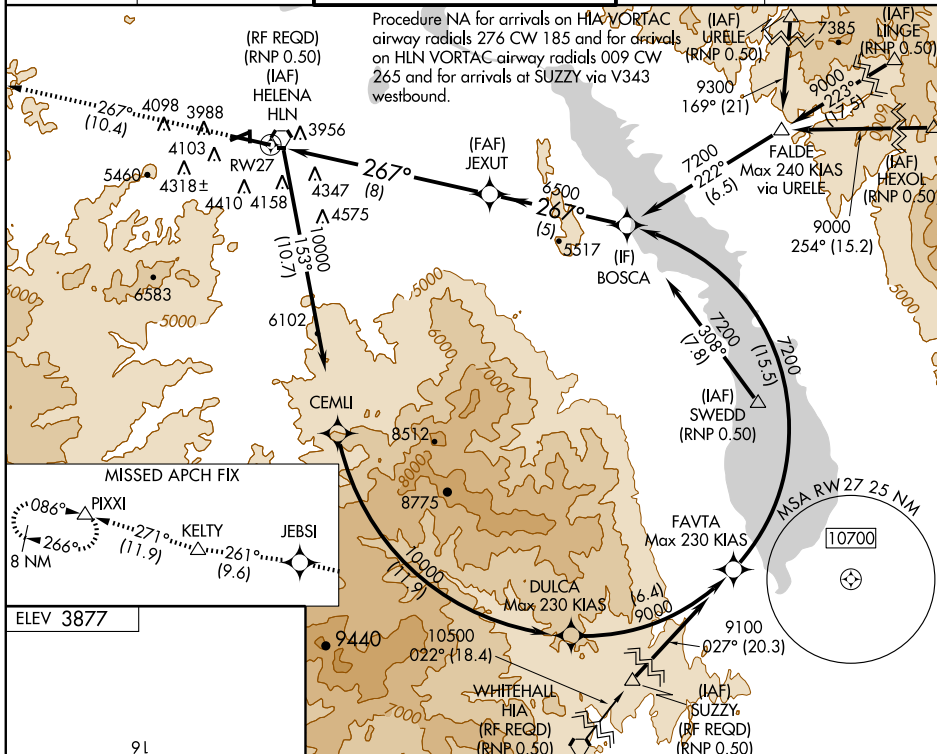
MALSR



MISSED APPROACH: Climb to 13000 via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals on HIA VORTAC
airway radials 276 CW 185 and for arrivals
on HLN VORTAC airway radials 009 CW
265 and for arrivals at SUZZY via V343
westbound.



NW-1. 22 OCT 2009 to 19 NOV 2009

Enroute chart for the JEXUT to BOSCA segment. The chart shows a track from JEXUT (6500) to BOSCA (7200) at 267°. A procedure turn NA is indicated. The chart also shows a segment from JEXUT to RW27 (6500) at 267°. The chart includes a table with categories A, B, C, and D, and a table with RNP values and DA values.

CATEGORY	A	B	C	D
RNP 0.18 DA*		4119-1/2	267 (300-1/2)	
RNP 0.22 DA**		4212-3/4	360 (400-3/4)	
RNP 0.30 DA***		4287-1	435 (500-1)	
RNP 0.30 DA		4863-4	1011 (1000-4)	

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED


SIEBE TWO DEPARTURE

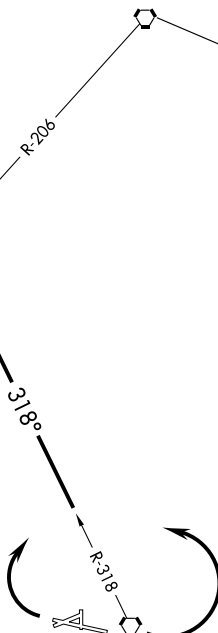
SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4


SIEBE
N46° 53.09'
W112° 09.08'
L-13

GREAT FALLS
115.1 GTF 
Chan 98



NOTE: Rwy 9, 1500-2 or standard
with minimum climb of
360 feet per NM to 6500 feet.

NOTE: Rwy 27, 2400-2 or standard
with minimum climb of
355 feet per NM to 7100 feet.

HELENA
117.7 HLN 
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn, thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn, thence. . . .

. . . .Intercept HLN R-318 to SIEBE INT.

STAKK TWO DEPARTURE

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4

SL-192 (FAA)

GREAT FALLS
115.1 GTF
Chan 98
N47° 27.00' - W111° 24.73'
L-13, H-1

LEWISTOWN
112.0 LWT
Chan 57
N47° 03.18' - W109° 36.37'
L-13, H-1

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'

(IRWEG)
N46° 40.59' - W111° 36.30'

(IRVIEW)
N46° 36.64' - W111° 35.45'

WAUTS
N46° 36.70' - W111° 27.28'
L-13

STAKK
N46° 33.00' - W111° 36.03'
10200

(IROHO)
N46° 29.12' - W111° 38.22'

SWEDD
N46° 26.98' - W111° 32.70'

LIVINGSTON
116.1 LVM
Chan 108

CONNS
N46° 16.11' - W111° 04.93'
L-13

BOZEMAN
112.4 BZN
Chan 71
N45° 47.03' - W111° 09.33'
L-13

NOTE: DME required.

NOTE: Take-off Rwy 9 requires a minimum climb of 390' per NM.

NOTE: Take-off Rwy 27 requires a minimum climb of 300' per NM.

NOTE: This SID requires a minimum climb of 300' per NM.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to intercept HLN R-087 to cross STAKK INT at or above 10,200'. Thence via transition.

TAKE-OFF RUNWAY 27: Climb on runway heading to 4500' then climbing right turn direct HLN VORTAC. Continue climb on HLN R-087 to cross STAKK INT at or above 10,200'. Thence via transition.

BOZEMAN TRANSITION (STAKK2.BZN): From over STAKK INT via 15 DME Arc and V365 to BZN VOR/DME.

CONNS TRANSITION (STAKK2.CONNS): From over STAKK INT via 15 DME Arc and V2 to CONNS INT.

GREAT FALLS TRANSITION (STAKK2.GTF): From over STAKK INT via 15 DME Arc and V21 to GTF VORTAC.

LEWISTOWN TRANSITION (STAKK2.LWT): From over STAKK INT via 15 DME Arc and V113 to LWT VORTAC.

WAUTS TRANSITION (STAKK2.WAUTS): From over STAKK INT via 15 DME Arc and V247 to WAUTS INT.

AL-192 (FAA)

VOR-A
HELENA RGNL (HLN)

T
A Circling NA for Cat D south of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS
120.4

HELENA APP CON ★
119.5 229.4

HELENA TOWER★
118.3 (CTAF) **L** 257.8

GND CON
121.9

UNICOM
122.95

MISSED APCH FIX

WOKEN
GTF 37.7

ALTERNATE MISSED
APPROACH

HELENA
HLN $\frac{117.7}{117.7}$
Chan 124

HELENA
117.7 HLN
Chn 124

ELEV 3877

NW-1. 22 OCT 2009 to 19 NOV 2009

9000
HL
P. 31

WOKEN
△

VORTAC

Remain
within 10 NM

Procedure Turn: Descend to 10000 in HLN VORTAC holding pattern prior to departing outbound for procedure turn.

086.

$$\geq \underline{8200}$$

Λ4174

REIL Rwy 9 **L**

MIRL Rwy 5-23 and 16-34 L

HIRL Rwy 9-27 **L**

CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 2823 (2900-1¼)	6700-1½ 2823 (2900-1½)	6700-3	2823 (2900-3)

VORTAC HLN
117.7
Chan 124

APP CRS
266°

Rwy Idg
TDZE
Apt Elev
N/A
N/A
3877

VOR/DME-B
HELENA RGNL (HLN)

⚠

Circling NA for Cat D south of Rwy 9-27.

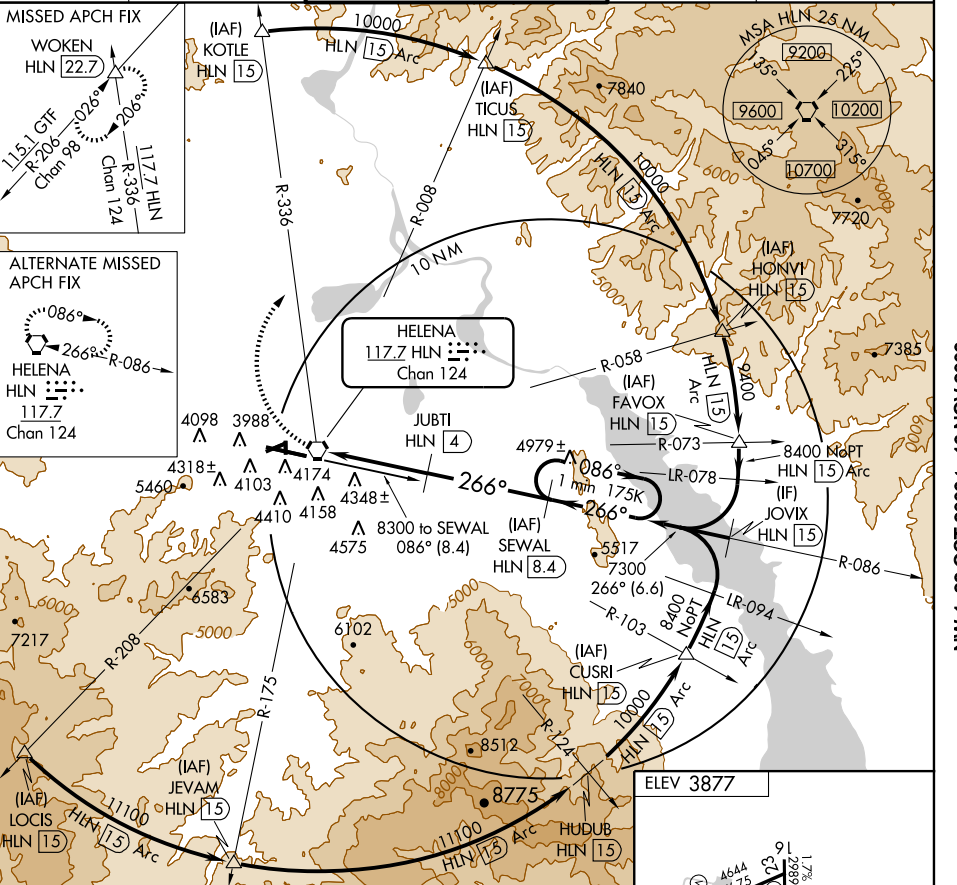
⚠

DME Arc to final approach course required for turboprop aircraft.

Holding at SEWAL authorized for Cat A and B aircraft only.

MISSED APPROACH: Climbing right turn to 9000
via HLN VORTAC R-336 to WOKEN INT/22.7 DME
and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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9000
HLN R-336

WOKEN
△

JUBTI
HLN 4

SEWAL
HLN 8.4

One Minute
Holding Pattern

VORTAC

266°

086°

7300

5420

CATEGORY

A

B

C

D

CIRCLING

4760-1¼ 883 (900-1¼)

4760-2¾ 883 (900-2¾)

4760-3 883 (900-3)

REIL Rwy 9

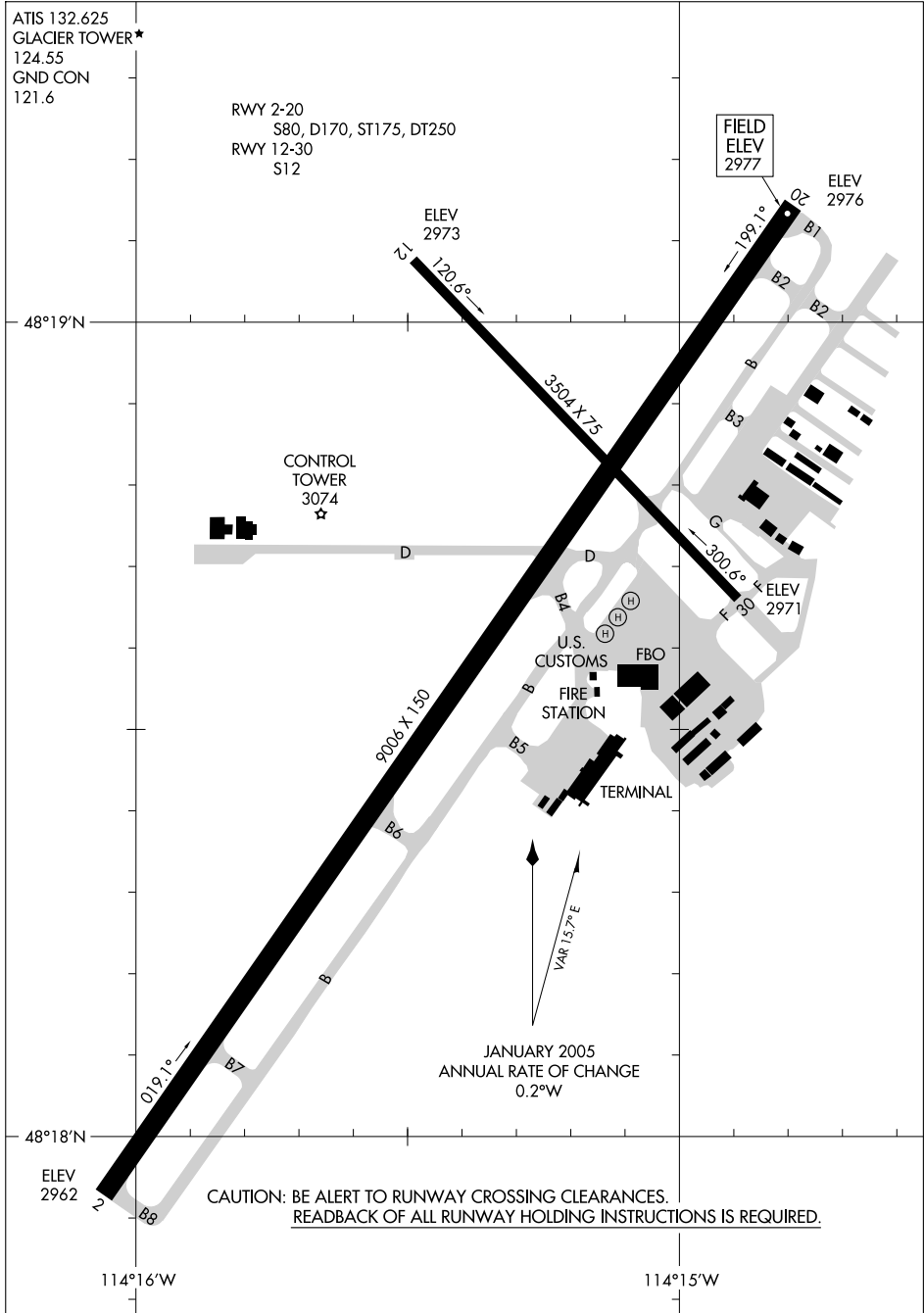
MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

NW-1. 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

AL-887 (FAA)

KALISPELL/GLACIER PARK INTL (GPI)
KALISPELL, MONTANA

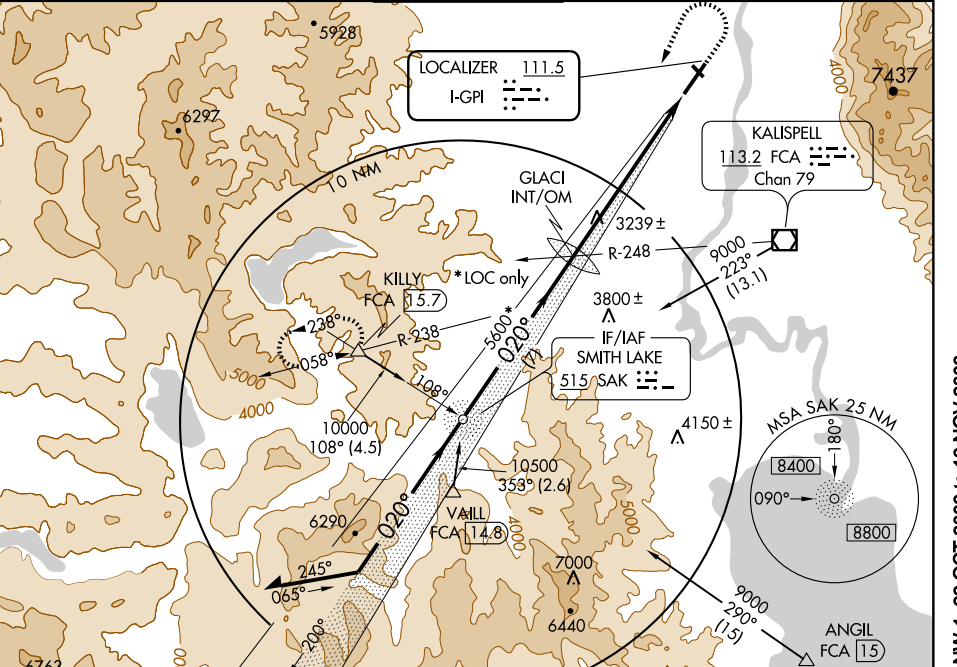
LOC I-GPI	APP CRS	Rwy Idg	9006
111.5	020°	TDZE	2966
		Apt Elev	2977

ADF required.

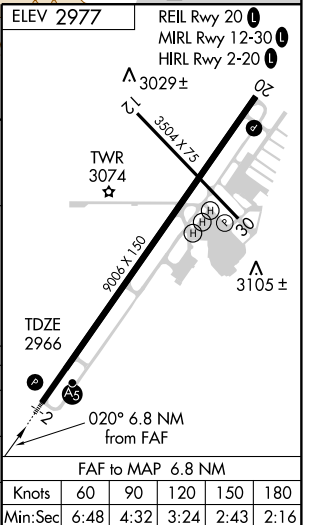
MALS R

MISSED APPROACH: Climb to 4100, then climbing left turn to 12000 via heading 190° and via FCA VOR/DME R-238 to KILLY INT/FCA 15.7 DME and hold, continue climb-in-hold to 12000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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Remain within 10 NM	NDB	4100	12000	FCA R-238	KILLY
		hdg 190°		113.2	△
					*LOC only
7800	020°	7590	5234	5600	
GS 3.00° TCH 51					
CATEGORY	A	B	C	D	
S-ILS 2	3166-1/2 200 (200-1/2)				
S-LOC 2	3540-1/2	574 (600-1/2)	3540-1	574 (600-1)	3540-1 1/4
					574 (600-1 1/4)
					3640-2
					663 (700-2)
CIRCLING	3540-1	563 (600-1)	3640-1 3/4	663 (700-1 3/4)	3640-2
					663 (700-2)

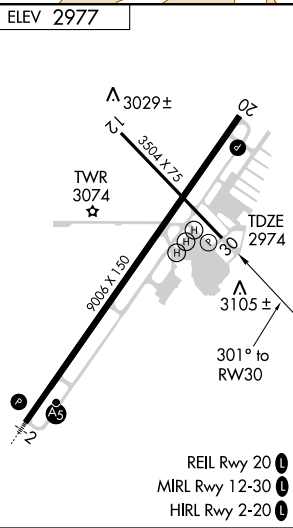
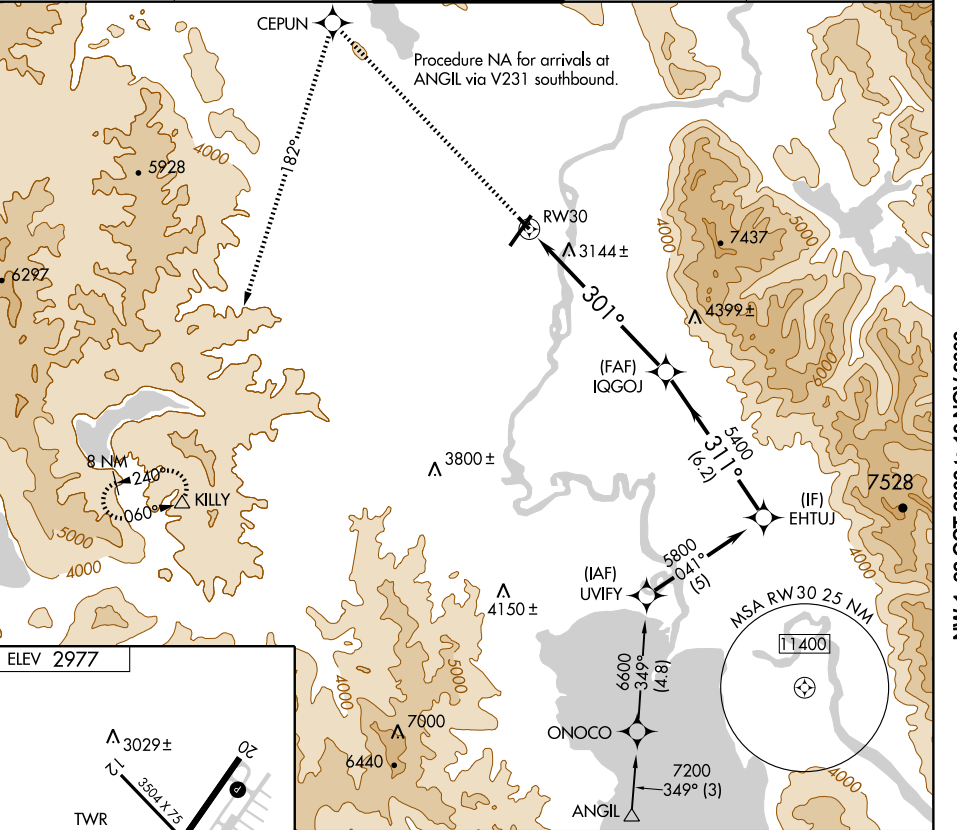


▼

Straight-in minimums NA at night.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct CEPUN
and left turn via track 182° to KILLY and hold, continue
climb-in-hold to 12000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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12000	CEPUN	182° track	KILLY	EHTUJ
↑	✧	↩	△	
VGSI and descent angles not coincident				
RW30		301°	5400	5800
↘		≤ 3.21°		Procedure Turn NA
↘		TCH 45		
7 NM		6.2 NM		
CATEGORY	A	B	C	D
LNAV MDA	3460-1	486 (500-1)	3460-1¼ 486 (500-1¼)	3460-1½ 486 (500-1½)
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

WAAS CH 70799 W02A	APP CRS 020°	Rwy Idg TDZE 2966 Apt Elev 2977
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For inoperative MALS, increase LPV visibility to 1 ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

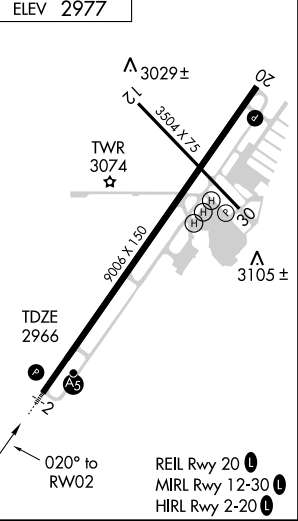
MALS

MISSED APPROACH: Climb to 9000 direct CUTUT and via track 290° to KECEK and via track 209° to BOFVY and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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Procedure Turn NA		AVDIH	BOGKO	9000	CUTUT	trk 290°	KECEK	trk 209°	BOFVY
		7000	5800	5200	5200	5200	5200	5200	5200
		020°	020°	020°	020°	020°	020°	020°	020°
		4.9 NM	2.2 NM	3.3 NM	1.6 NM	1.8 NM			
CATEGORY		A	B	C	D				
LPV DA		3297-¾		331 (400-¾)					
LNAV/VNAV DA		3502-1½		536 (600-1½)					
LNAV MDA		3600-½ 634 (700-½)		3600-1¼ 634 (700-1¼)		3600-1½ 634 (700-1½)			
CIRCLING		3600-1 623 (700-1)		3640-1¾ 663 (700-1¾)		3640-2 663 (700-2)			




APP CRS	Rwy Idg	9006
020°	TDZE	2966
	Apt Elev	2977

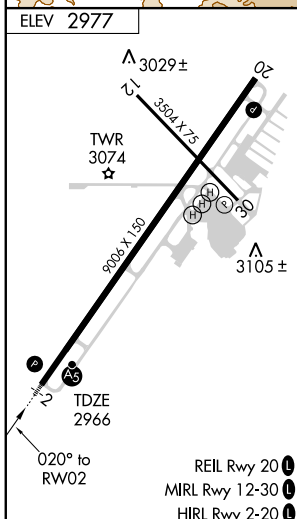
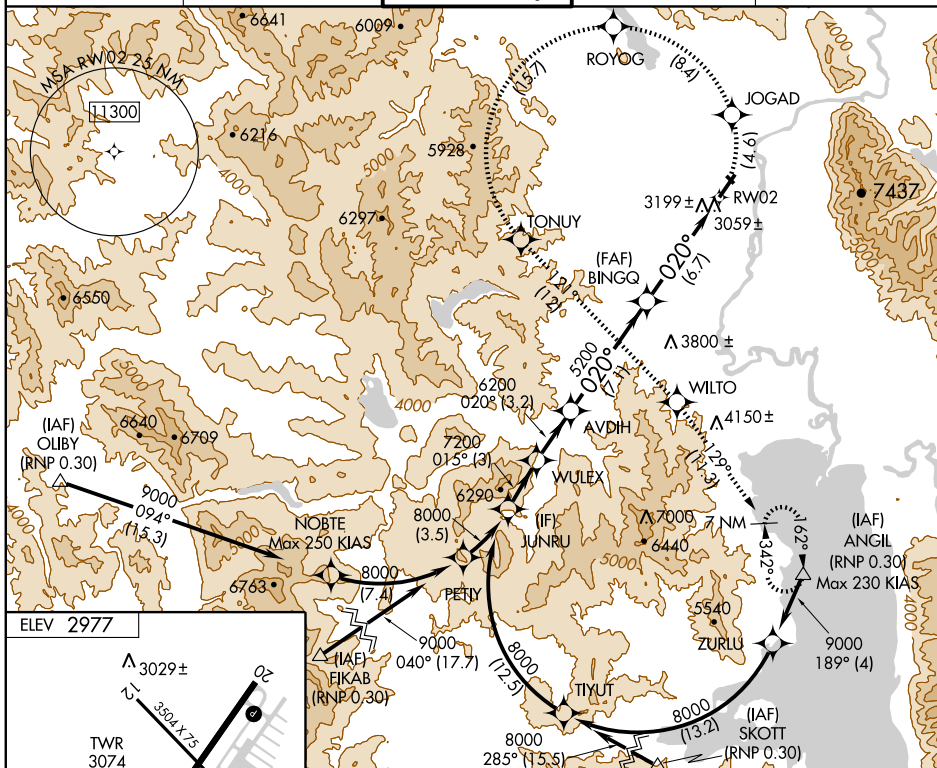
RNAV (RNP) Y RWY 2

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required.
***Missed approach requires minimum climb of 220 feet per NM to 6100.**
Missed approach requires RNP less than 1.0.
 For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.10 * visibility to 1¼ and RNP 0.30 visibility to 2.

MALSR

MISSED APPROACH: Climb to 10000 via left turn to JOGAD, and via left turn to ROYOG and via left turn to TONUY, and via 121° track to WILTO and via 129° track to ANGIL and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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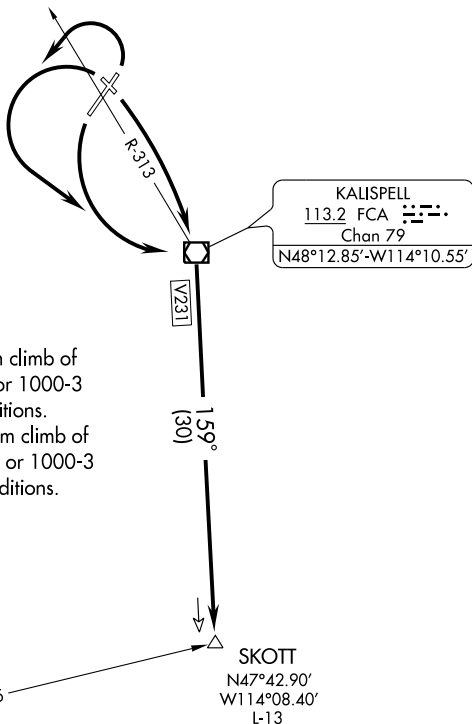
	JUNRU	WULEX	AVDIH	10000	JOGAD	ROYOG
Procedure	Turn NA	015°	020°	BINGQ		
GP 3.00°	7200	6200	5200			
TCH 51						
	3 NM	3.2 NM	7.1 NM	6.7 NM		
CATEGORY	A	B	C	D		
RNP 0.10 DA*	NA	3340-¾	374 (400-¾)			
RNP 0.30 DA	NA	3522-1½	556 (600-1½)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

SKOTT ONE DEPARTURE (OBSTACLE)

KALISPELL, MONTANA

SALT LAKE CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
GLACIER TOWER★
124.55

TAKE-OFF MINIMUMS

Rwys 12, 20: Standard.

Rwy 2: Standard with minimum climb of
444' per NM to 7500 or 1000-3
for climb in visual conditions.

Rwy 30: Standard with minimum climb of
249' per NM to 5900 or 1000-3
for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple trees beginning 1468' from DER, 674' right of centerline, up to 91' AGL/3061' MSL.

Rwy 12: Multiple trees beginning 1426' from DER, 543' left of centerline, up to 129' AGL/3082' MSL.

Railroad 702' from DER, 317' left of centerline, 31' AGL/2997' MSL.

Road 544' from DER, 299' left of centerline, 22' AGL/2988' MSL.

Rwy 20: Multiple trees beginning 2742' from DER, 1140' left of centerline, up to 107' AGL/3169' MSL.

Rwy 30: Multiple trees beginning 1848' from DER, 722' left of centerline, up to 104' AGL/3067' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 30: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 12: Climbing right turn direct FCA VOR/DME, thence....

TAKE-OFF RUNWAY 20: Climbing left turn direct FCA VOR/DME, thence....

....continue climb to 10,000 via FCA R-159 to SKOTT INT.

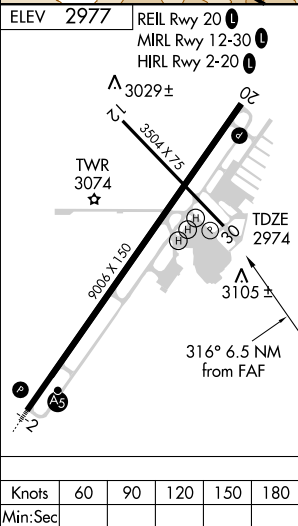
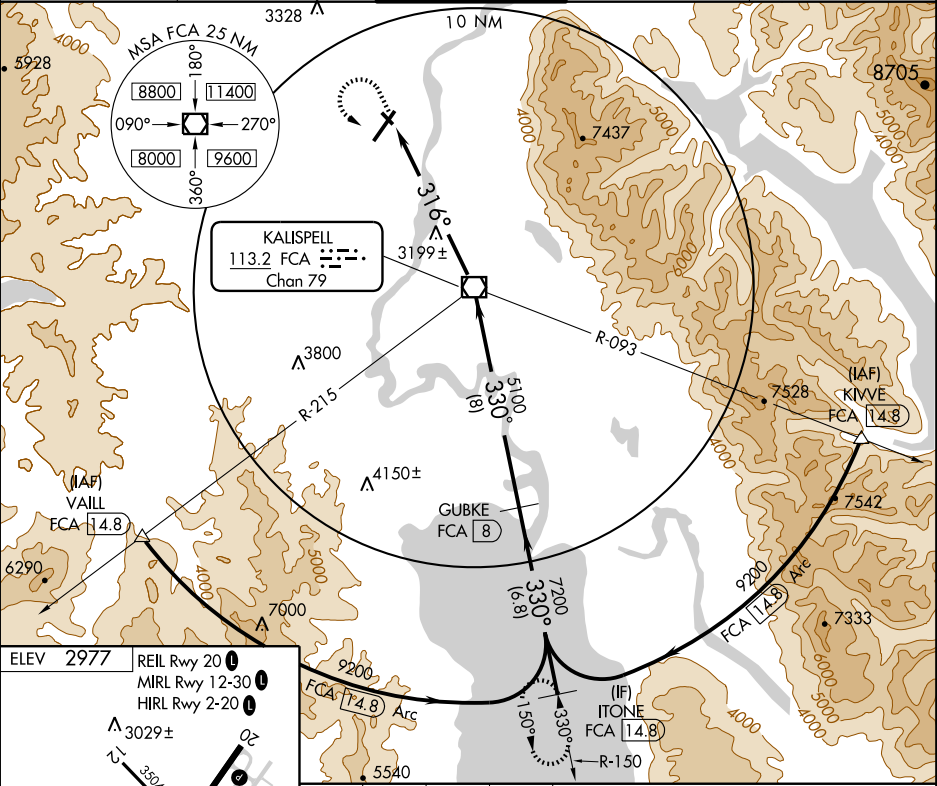
VOR/DME FCA	APP CRS	Rwy Idg	3504
113.2	316°	TDZE	2974
Chan 79		Apt Elev	2977

VOR/DME RWY 30
KALISPELL/ GLACIER PARK INTL (GPI)

▼ Visibility reduction by helicopters not authorized.
When VGSI inoperative, straight-in minimums not authorized at night.

MISSED APPROACH: Climb to 4000 then climbing left turn to 9300 via heading 130° and FCA R-150 to ITONE/14.8 DME and hold, continue climb-in-hold to 9300.



ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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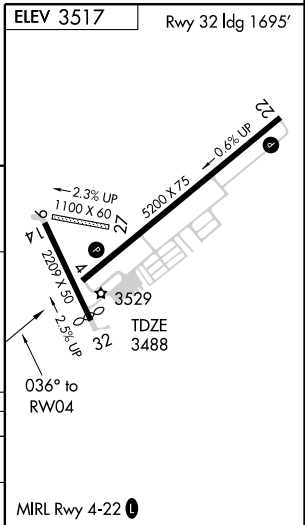
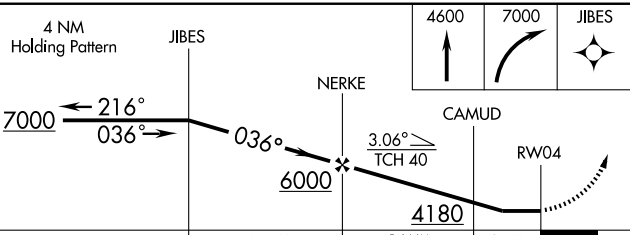
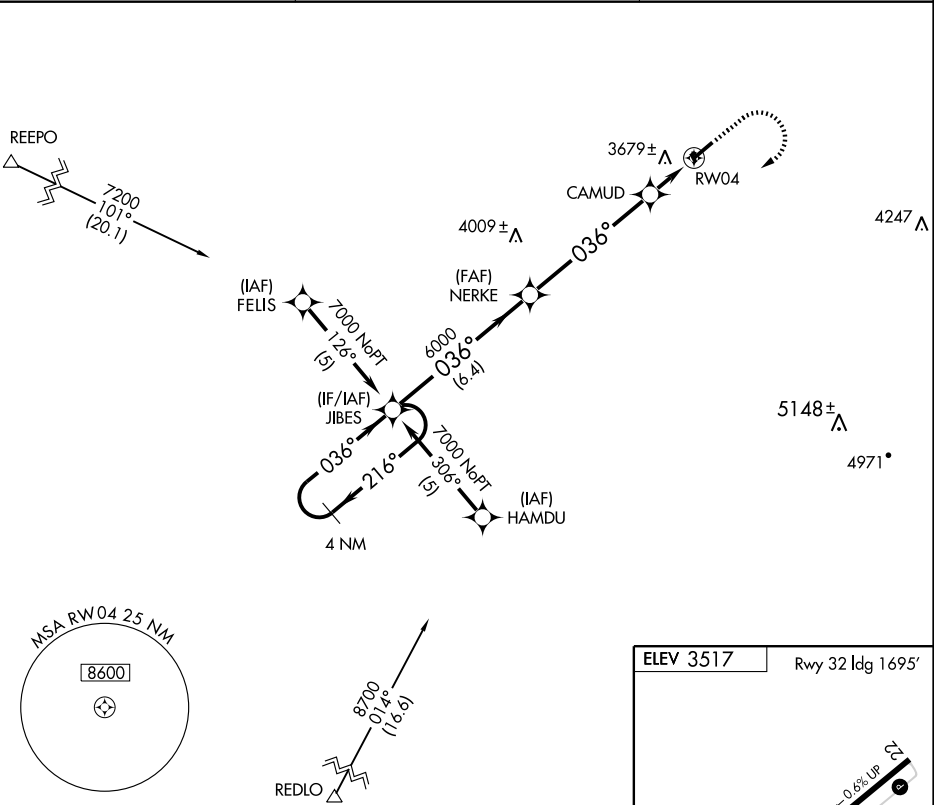
4000 ↑	9300 ↘ 130°	FCA R-150 <u>113.2</u>	ITONE <u>14.8</u>	
VGSI and descent angles not coincident.		VOR/DME	GUBKE FCA <u>8</u>	ITONE FCA <u>14.8</u>
<p>316° 5100 330° 7200 9200</p> <p>3.04° TCH 30</p> <p>6.5 NM 8 NM 6.8 NM</p> <p>Procedure Turn NA</p>				
CATEGORY	A	B	C	D
S-30	3480-1 506 (600-1)		3480-1½ 506 (600-1½)	
CIRCLING	3520-1 543 (600-1)		3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

APP CRS	Rwy Idg	5200
036°	TDZE	3488
	Apt Elev	3517

RNAV (GPS) RWY 4
LAUREL MUNI (6S8)

	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct JIBES WP and hold.
	Use Billings altimeter setting.	

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF) 
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CATEGORY	A	B	C	D
LNAV	4120-1	632 (700-1)	4120-1 3/4 632 (700-1 3/4)	4120-2 632 (700-2)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2 3/4 823 (900-2 3/4)

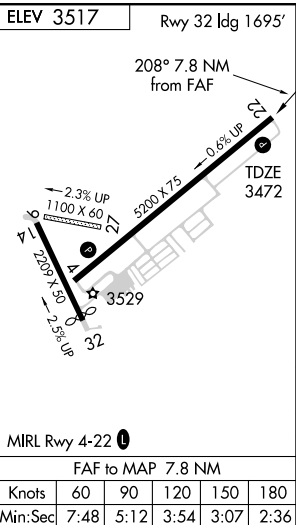
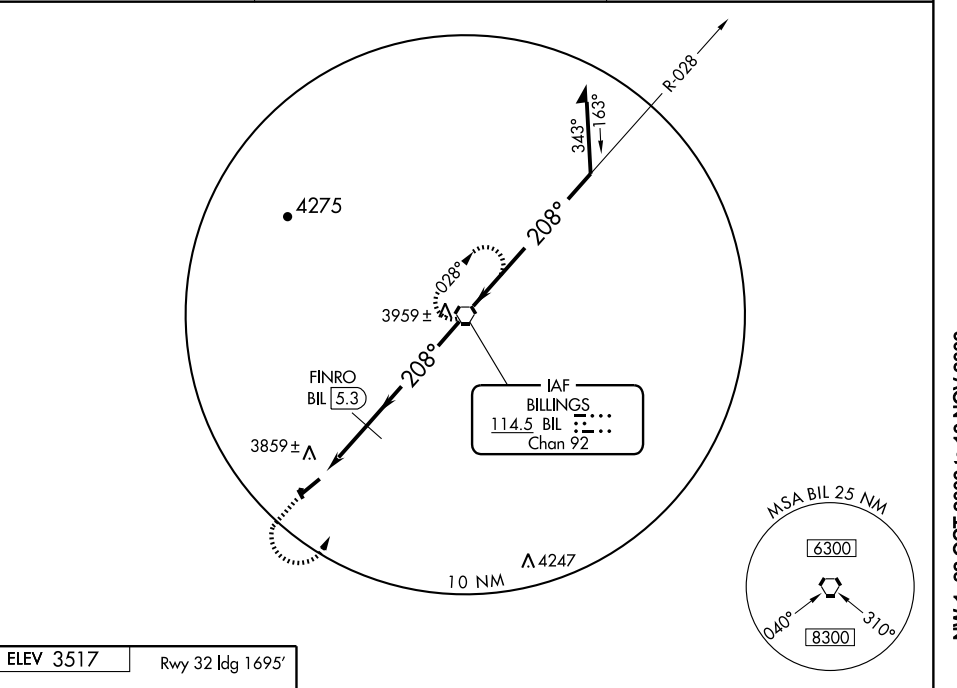
▼




▲ NA

Use Billings altimeter setting.

MISSED APPROACH: Climb to 4700 then climbing left turn to 6300 direct BIL VORTAC and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF) 1
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4700 ↑		6300 ↖		BIL 114.5 		VORTAC		Remain within 10 NM	
BIL 7.8 		FINRO BIL 5.3 		3.21° TCH 40		208°		028°	
2.5 NM		5.3 NM		4360		6300		208°	
						6300		VGS1 and descent angles not coincident.	
CATEGORY	A		B		C		D		
S-22	4360-1¼ 888 (900-1¼)				4360-2¾ 888 (900-2¾)		4360-3 888 (900-3)		
CIRCLING	4360-1¼ 843 (900-1¼)				4360-2¾ 843 (900-2¾)		4360-3 843 (900-3)		
FINRO FIX MINIMUMS									
S-22	4160-1 688 (700-1)				4160-2 688 (700-2)		4160-2¼ 688 (700-2¼)		
CIRCLING	4220-1 703 (800-1)				4220-2 703 (800-2)		4340-2¾ 823 (900-2¾)		

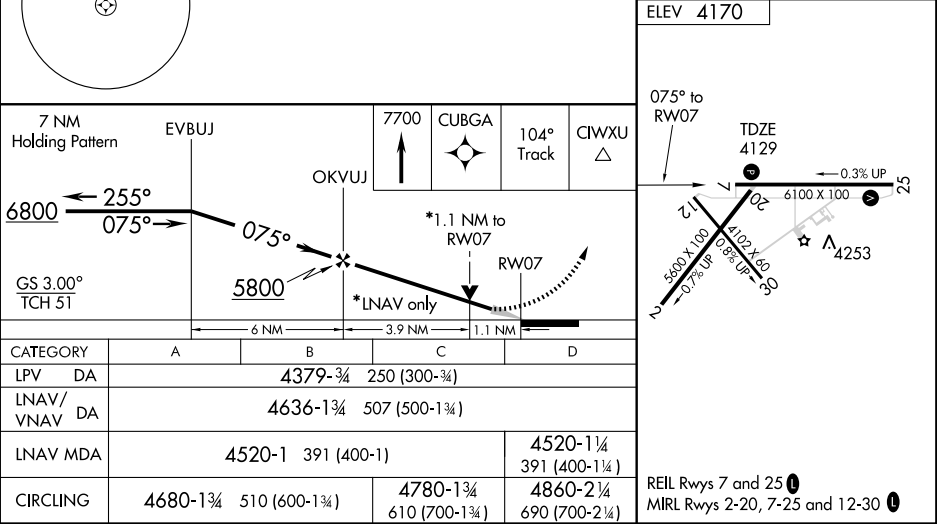
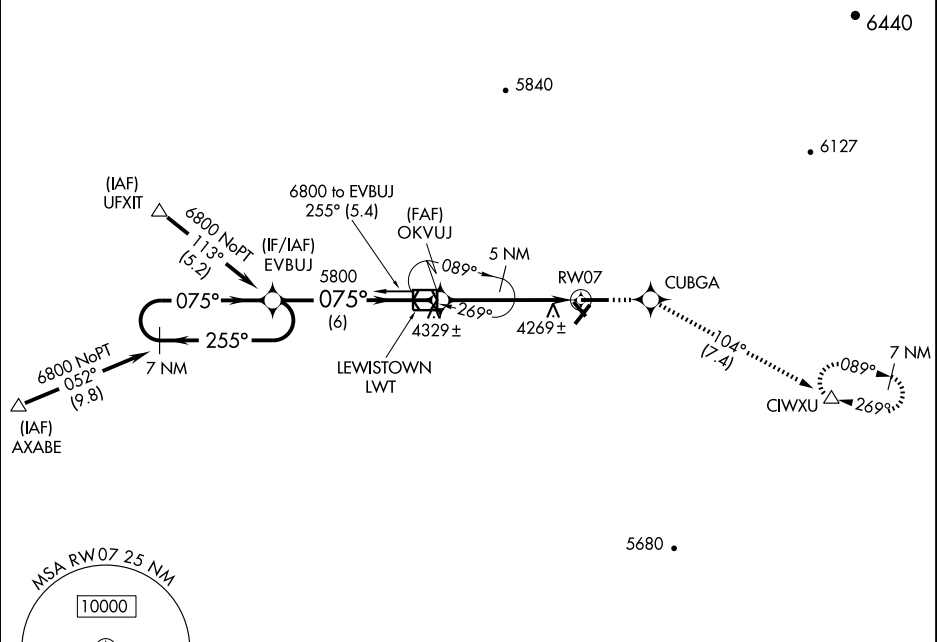
▼

▲

DME/DME RNP -0.3 NA.
If local climeter setting not received, procedure NA.
Baro-VNAV NA below -23°C (-9°F)

MISSED APPROACH: Climb to 7700 direct CUBGA and via 104° track to CIWXU and hold, continue climb-in-hold to 7700.

ASOS 118.375	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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VORTAC LWT 112.0 Chan 57	APP CRS 075°	Rwy Idg 6100 TDZE 4126 Apt Elev 4167
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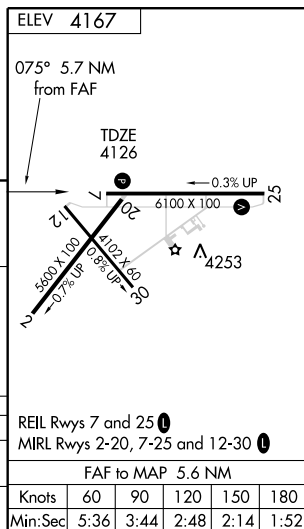
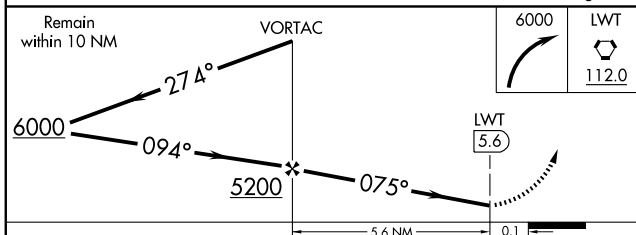
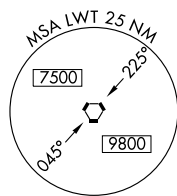
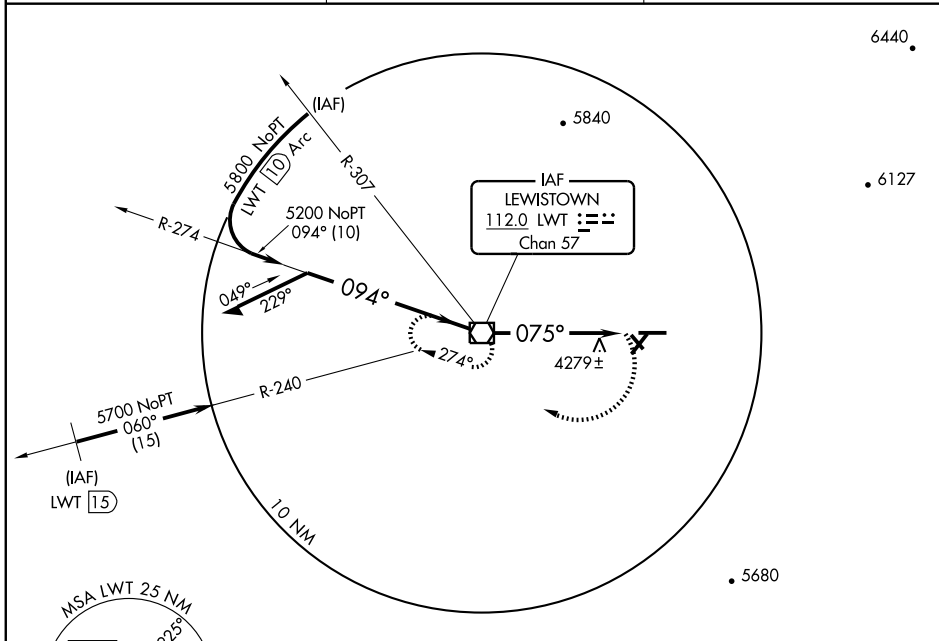
VOR RWY 7

LEWISTOWN MUNI (LWT)

⚠ If local altimeter setting not received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 6000 direct LWT VORTAC and hold.

ASOS 118.375	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF)
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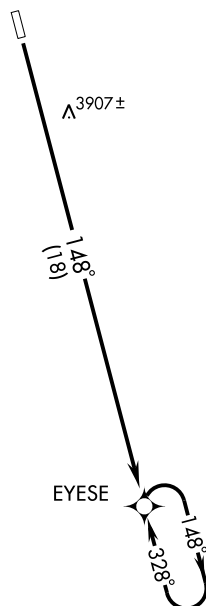
EYESE ONE DEPARTURE (RNAV) (OBSTACLE)

SEATTLE CENTER

123.95 282.3

AWOS-A

118.575



NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS: 1400-2 or standard with a minimum
climb of 380' per NM to 9600'.
3907' terrain 23,697' from runway threshold,
2491' left of centerline.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb via 148° course to 9600' to EYESE WP, then
continue climb to 12,000' within the EYESE holding pattern.

▼

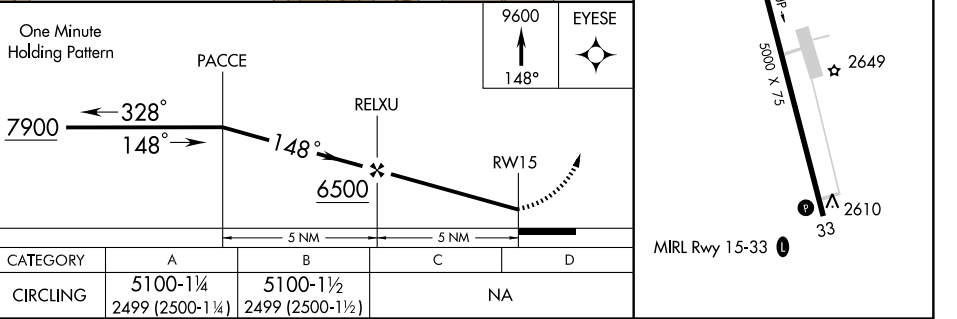
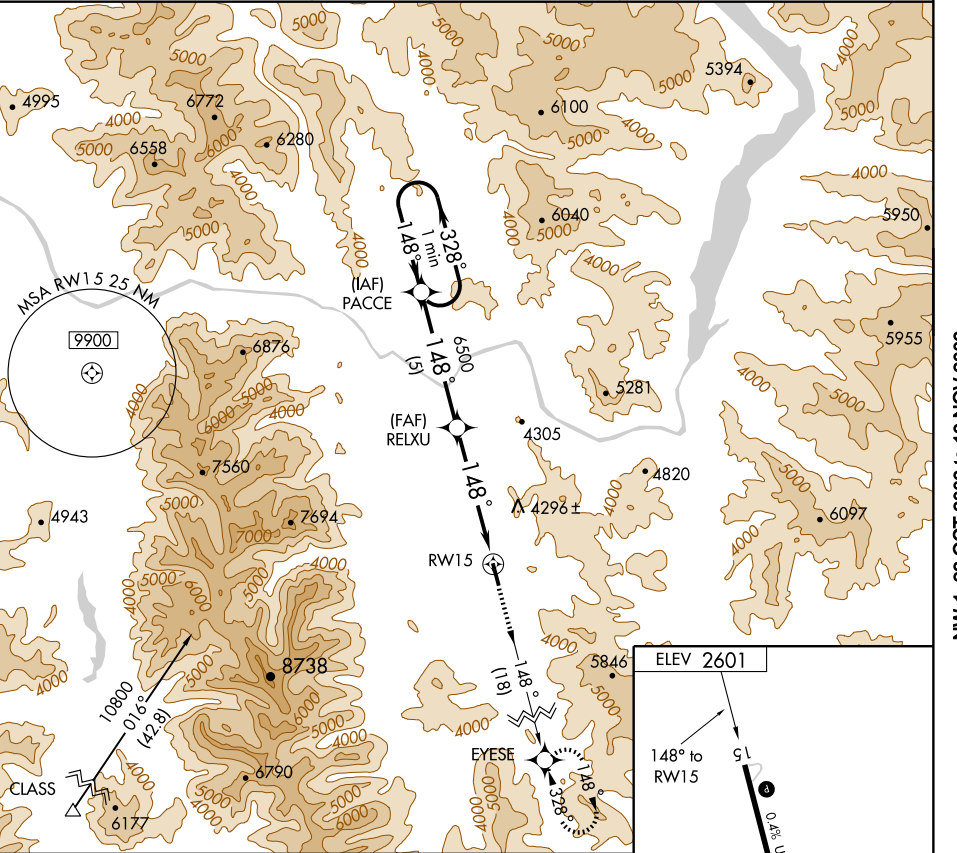
NA

Obtain local altimeter setting on CTAF; when not received procedure not authorized.

Circling not authorized east of Rwy 15-33 at night.

MISSED APPROACH: Climb to 9600 via 148° course to EYESE WP and hold.

AWOS-A 118.575	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) ①
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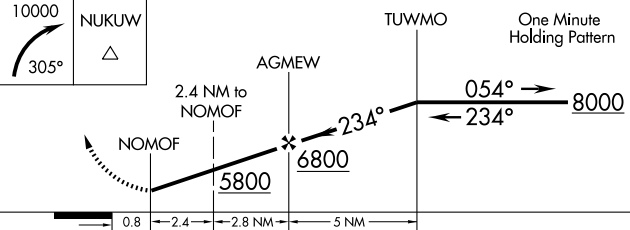
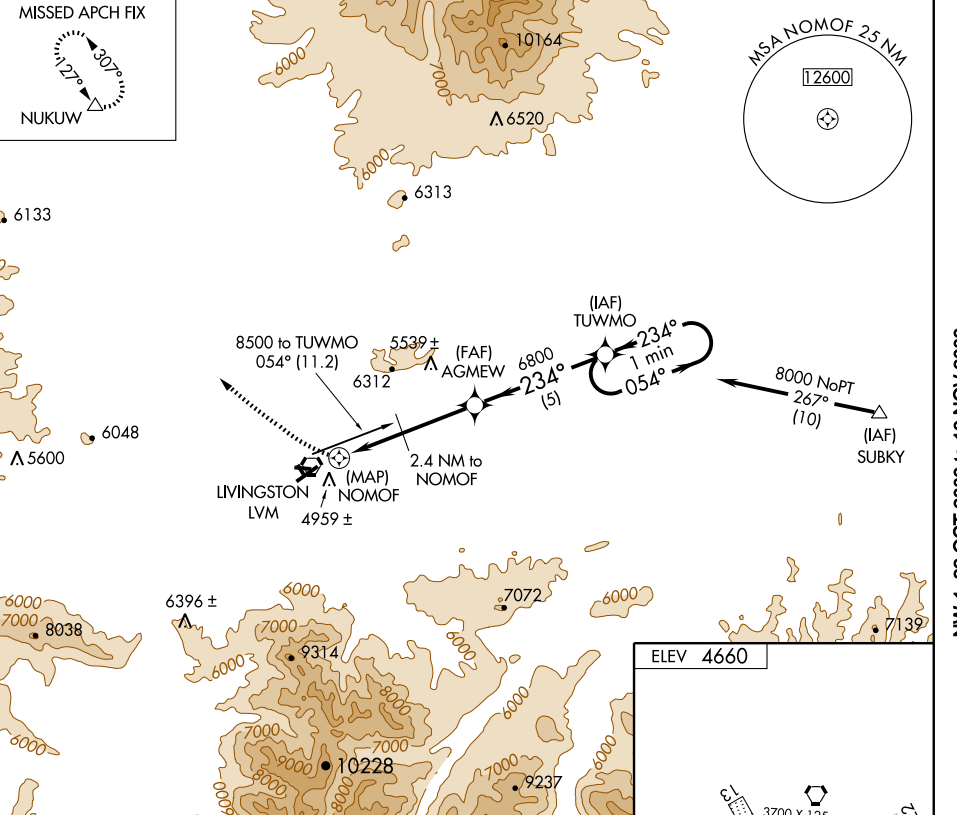


▼

▲ NA

MISSED APPROACH: Climbing right turn to 10000 via 305° course to NUKUW WP and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-22	5080-1	431 (500-1)	5080-1½ 431 (500-1½)	5080-1½ 431 (500-1½)
CIRCLING	5360-1 700 (700-1)	5380-1 720 (800-1)	5380-2 720 (800-2)	5580-3 920 (1000-3)

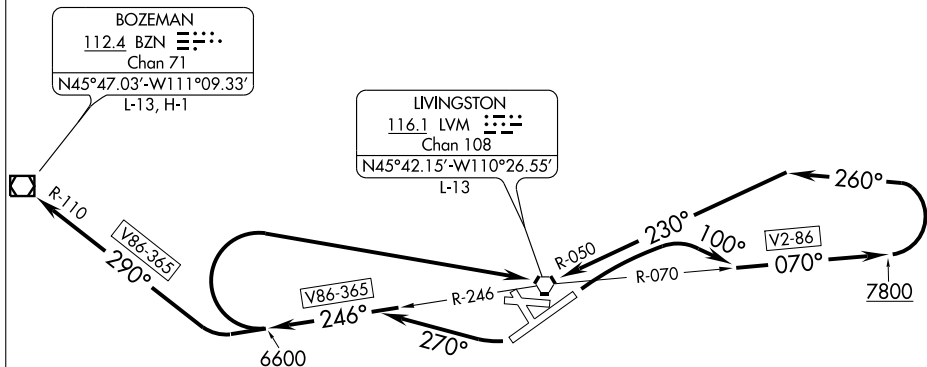
REIL Rwy 22

MIRL Rwy 4-22 0

NW-1. 22 OCT 2009 to 19 NOV 2009

LIVINGSTON ONE DEPARTURE (OBSTACLE)

GREAT FALLS RADIO
122.2
ASOS 135.275



TAKE-OFF MINIMUMS

Rwys 8, 13, 26, 31: NA-Environmental.

Rwy 4: Standard.

Rwy 22: Standard with minimum climb of 300' per NM to 6800
or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTE

Rwy 22: Multiple trees beginning 400' from DER, 256' right of centerline, up to 100' AGL/4719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climbing right turn heading 100° and LVM VORTAC R-070 outbound; aircraft departing eastbound, climb via LVM R-070/V2-86 enroute. All others continue climb on LVM R-070 to 7800, then climbing left turn via heading 260° and LVM R-050 to cross LVM VORTAC at or above 9000, then climb enroute.

TAKE-OFF RUNWAY 22: Climbing right turn heading 270° and LVM VORTAC R-246 outbound; aircraft departing eastbound, continue climb via LVM R-246 outbound to 6600, then climbing right turn direct LVM VORTAC, then climb on LVM R-070/V2-86 enroute. All other aircraft continue climb via LVM VORTAC R-246 and BZN VOR/DME R-110 to BZN. For climb in visual conditions, cross LVM VORTAC at or above 9000 before proceeding via filed airway route.

VORTAC LVM <u>116.1</u> Chan 108	APP CRS 145°	Rwy Idg TDZE Apt Elev	N/A N/A 4660
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VOR-A
LIVINGSTON/MISSION FIELD (LVM)

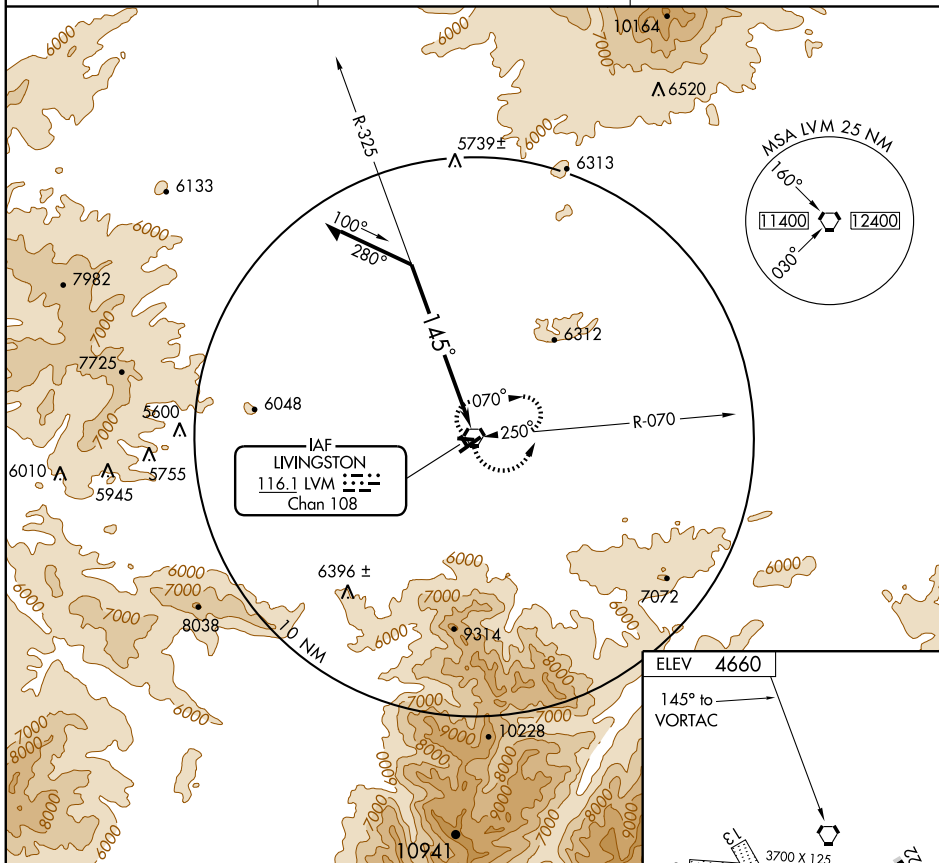


MISSED APPROACH: Climbing left turn to 7700 via LVM R-070, then climbing left turn to 9500 direct LVM VORTAC and hold.

ASOS
135.275

GREAT FALLS RADIO
122.2

UNICOM
123.0 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

Remain
within 10 NM

* VORTAC

7700

9500

LVM

8300

* Maintain 10600 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
CIRCLING	6800-1¼ 2140 (2200-1¼)	6800-1½ 2140 (2200-1½)	6800-3	2140 (2200-3)

REIL Rwy 22
MIRL Rwy 4-22 **L**

VORTAC LVM <u>116.1</u> Chan 108	APP CRS 145°	Rwy Idg TDZE Apt Elev	N/A N/A 4660
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VOR/DME-B
LIVINGSTON/MISSION FIELD (LVM)



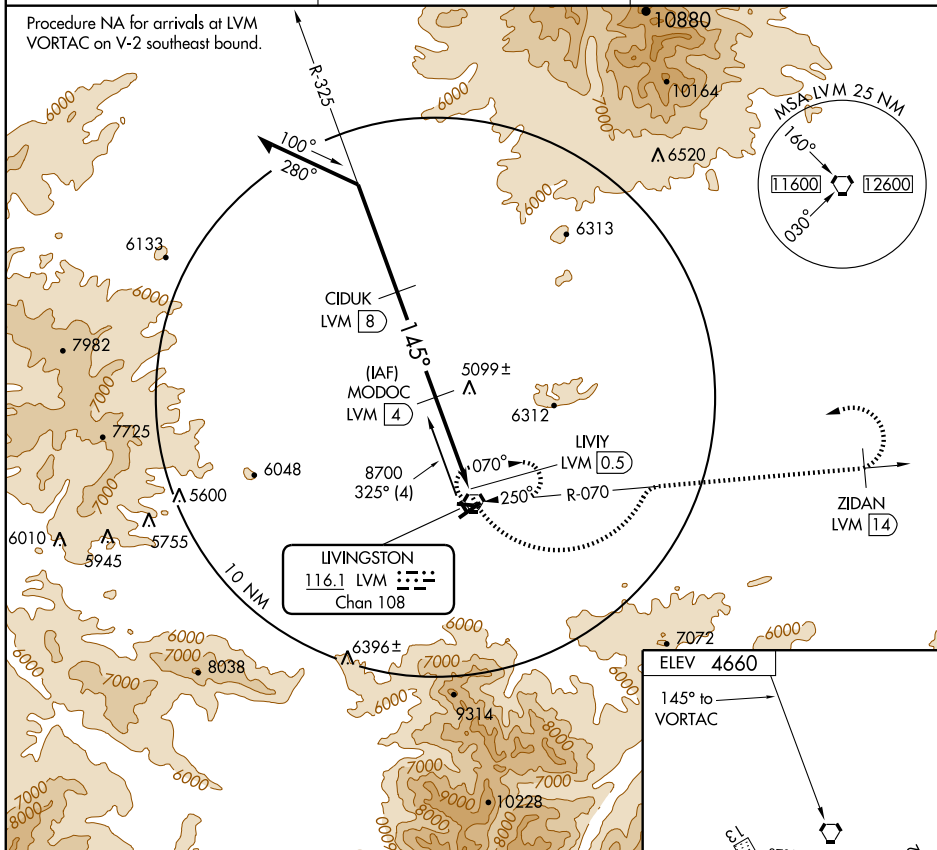
MISSED APPROACH: Climbing left turn to 9900 via LVM VORTAC R-070 to ZIDAN/14 DME and left turn direct LVM VORTAC and hold.

ASOS
135.275

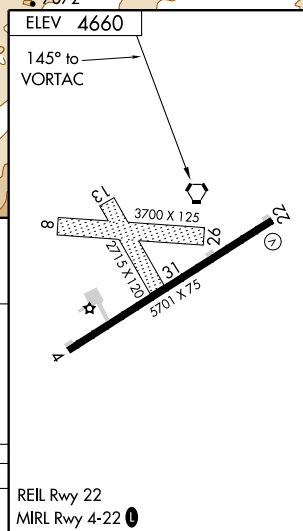
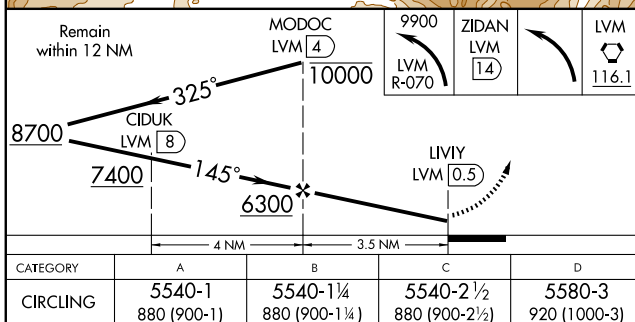
GREAT FALLS RADIO
122.2

UNICOM
123.0 (CTAF) **L**

Procedure NA for arrivals at LVM
VORTAC on V-2 southeast bound.



NW-1. 22 OCT 2009 to 19 NOV 2009

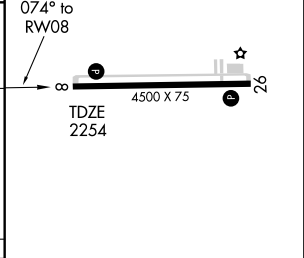
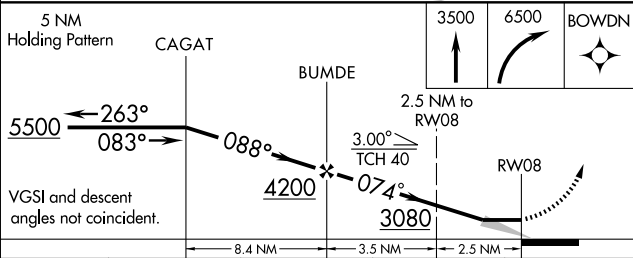
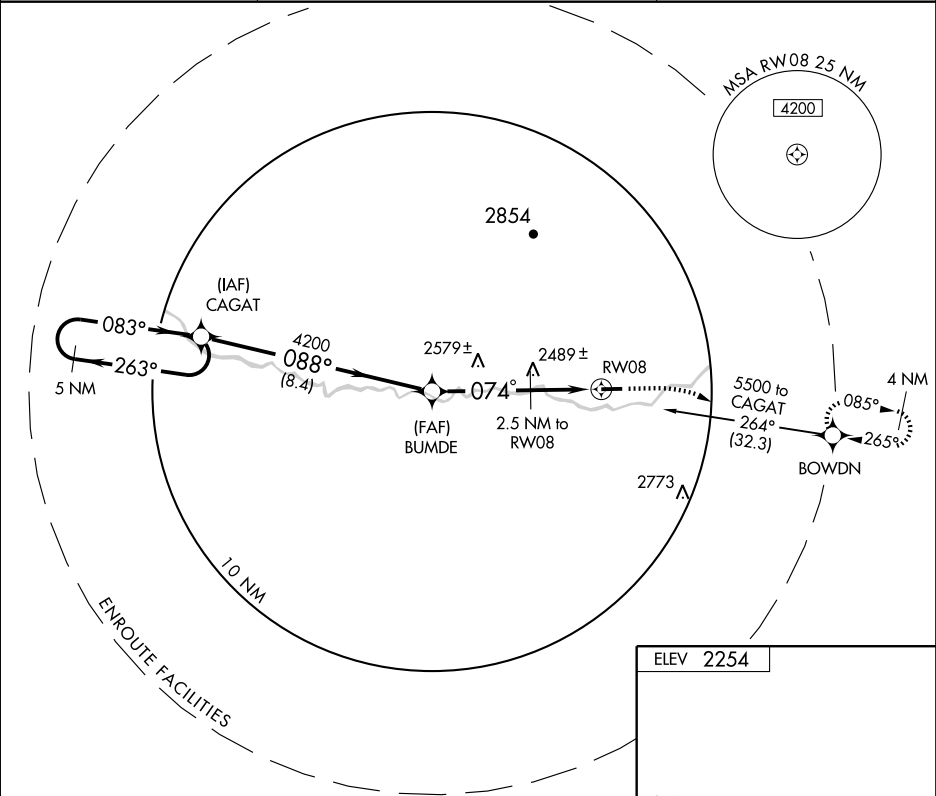


APP CRS	Rwy Idg	4500
074°	TDZE	2254
	Apt Elev	2254

RNAV (GPS) RWY 8
MALTA (M75)

▲ NA	Use Glasgow altimeter setting; when not received procedure not authorized. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 3500 then climbing right turn to 6500 direct BOWDN WP and hold.
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AWOS-3 122.8	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8(CTAF) 0
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CATEGORY	A	B	C	D
LNVA MDA	2980-1	726 (800-1)	NA	NA
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	NA

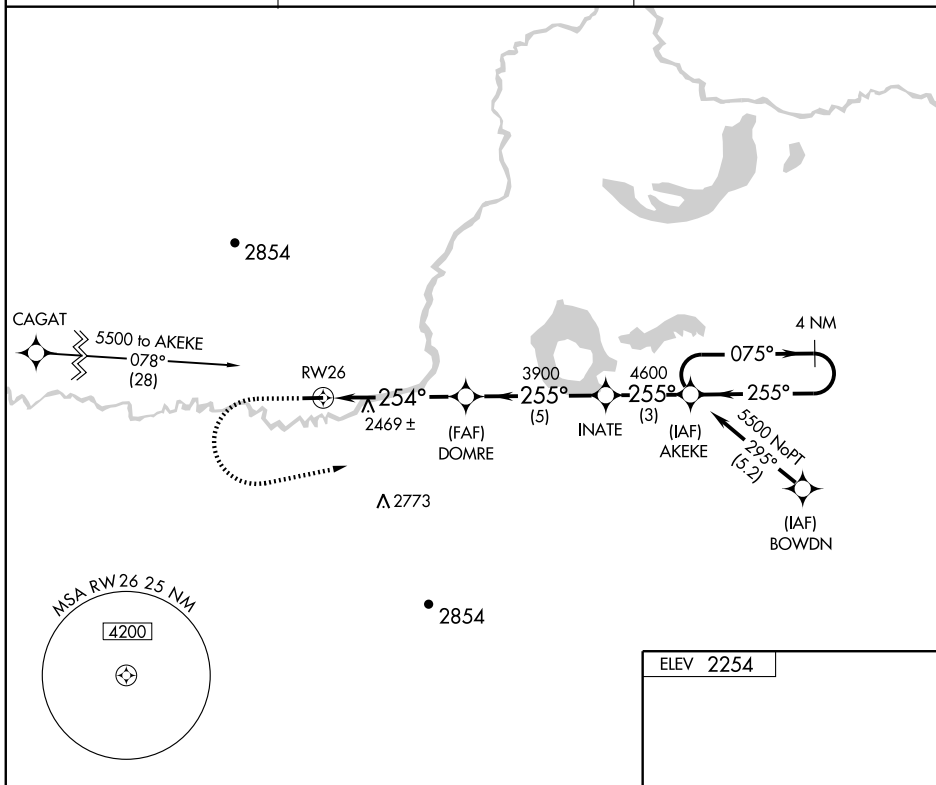
ELEV 2254
074° to RW08
TDZE 2254
4500 X 75
26
MIRL Rwy 8-26 0

MISSED APPROACH: Climb to 3500 then climbing left turn to 5500 direct AKEKE WP and hold.

126.85 305.2

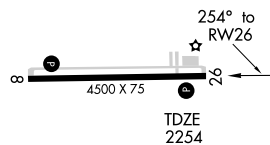
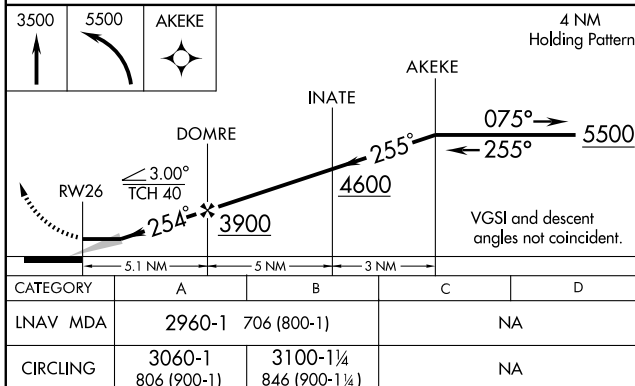
122.8 (CTAF) L

122.8(CTAF) L



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 2254

MIRL Rwy 8-26 **L**

NDB RWY 4

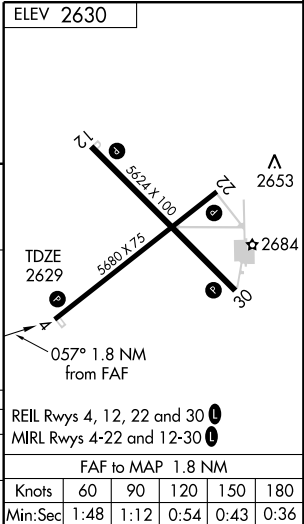
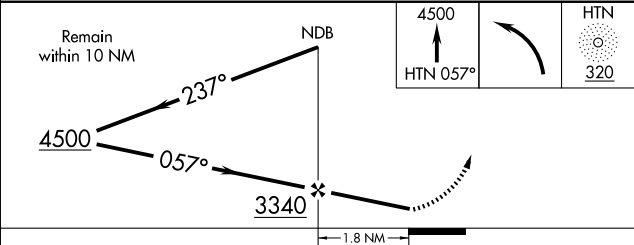
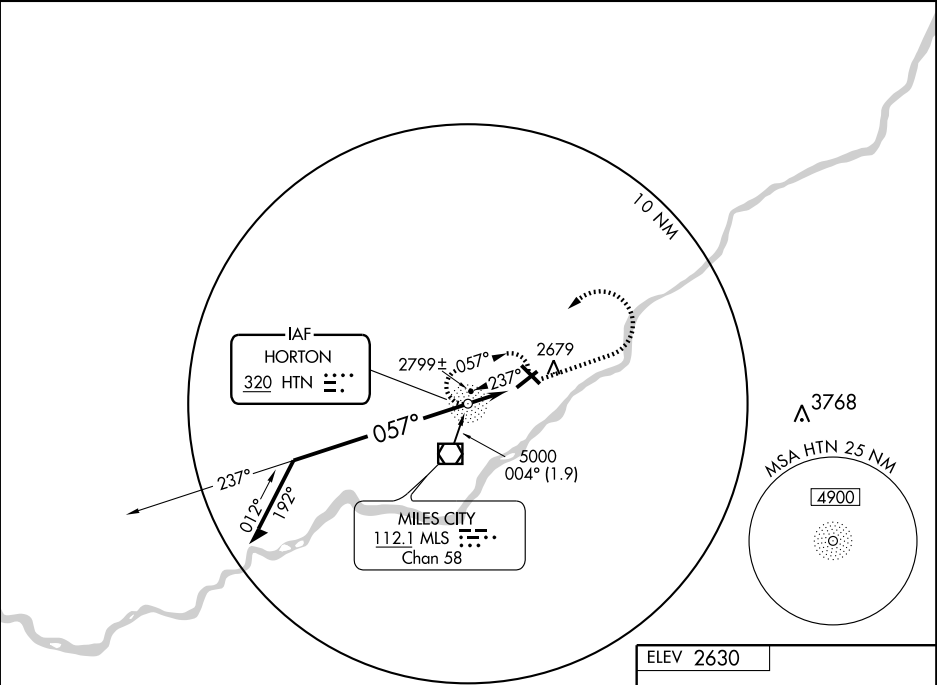
MILES CITY/FRANK WILEY FIELD (MLS)

NDB HTN	APP CRS	Rwy Idg	5680
320	057°	TDZE	2629
		Apt Elev	2630

Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 via 057° bearing from HTN NDB then left turn direct HTN NDB and hold.

ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-4	3060-1	431 (500-1)	3060-1¼ 431 (500-1¼)	3060-1½ 431 (500-1½)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

REIL Rws 4, 12, 22 and 30 0					
MIRL Rws 4-22 and 12-30 0					
FAF to MAP 1.8 NM					
Knots	60	90	120	150	180
Min:Sec	1:48	1:12	0:54	0:43	0:36

WAAS CH 42600 W04A	APP CRS 040°	Rwy Idg 5680 TDZE 2629 Apt Elev 2630
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RNAV (GPS) RWY 4

MILES CITY/ FRANK WILEY FIELD (MLS)

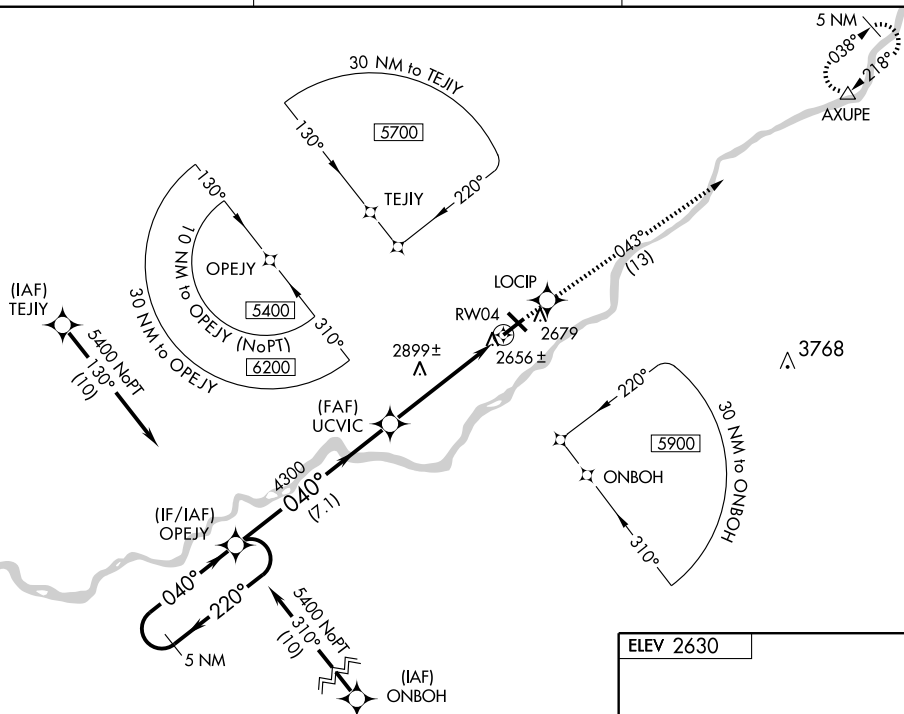
For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -20°C (-4°F) or above 32°C (111°F).
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 direct LOCIP and via 043° track to AXUPE and hold.

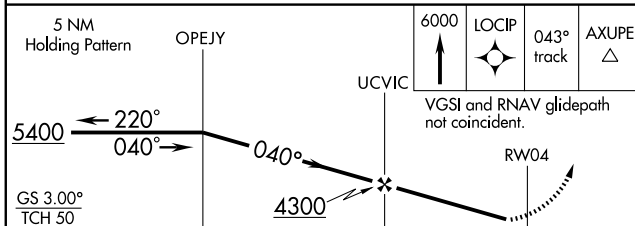
ASOS
135,575

GREAT FALLS RADIO
122.2 255.4

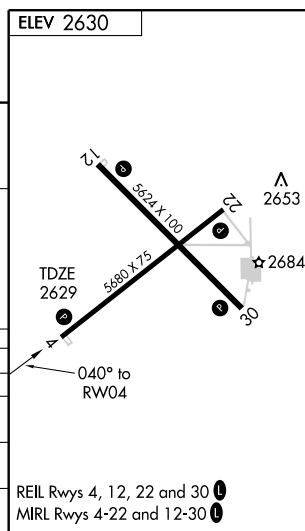
UNICOM
123.0 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009



		7.1 NM		5 NM			
CATEGORY	A	B	C	D			
LPV DA	2879-1		250 (300-1)				
LNAV/ VNAV DA	2926-1		297 (300-1)				
LNAV MDA	3160-1	531 (600-1)	3160-1½ 531 (600-1½)	3160-1¾ 531 (600-1¾)			
CIRCLING	3160-1	530 (600-1)	3160-1½ 530 (600-1½)	3180-2 550 (600-2)			



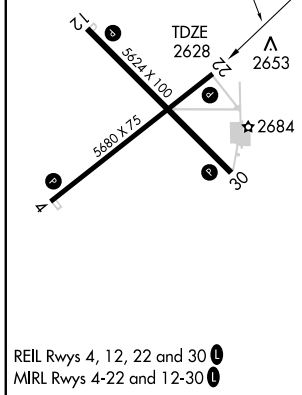
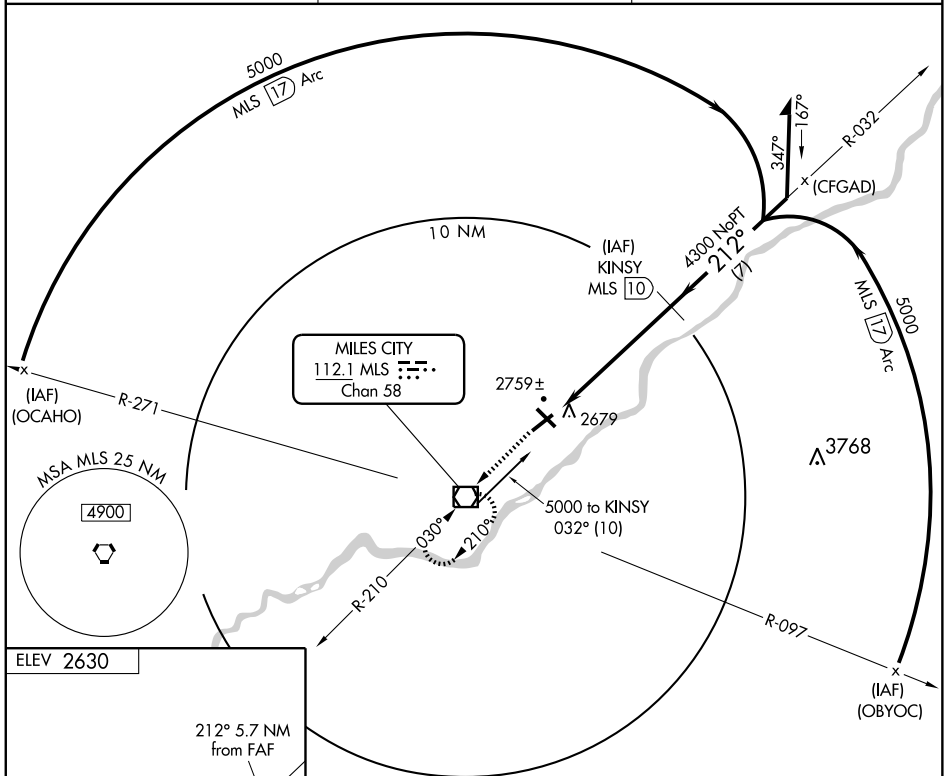
VORTAC MLS 112.1 Chan 58	APP CRS 212°	Rwy Idg TDZE Apt Elev	5680 2628 2630
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VOR/DME or GPS RWY 22

MILES CITY/FRANK WILEY FIELD (MLS)

MISSED APPROACH: Climb direct to MLS VORTAC. Continue climb to 4700 in MLS VORTAC holding pattern.	
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ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1
------------------------	---	--



ELEV 2630		KINSY MLS 10		Remain within 10 NM	
4700	MLS 112.1	MLS 5.5	MLS 4.3	4300	4600
1.2		4.5 NM			
CATEGORY	A	B	C	D	
S-22	3020-1 392 (400-1)			3020-1½ 392 (400-1½)	
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)	

VOR RWY 4

MILES CITY/FRANK WILEY FIELD (MLS)

VORTAC MLS	APP CRS	Rwy Idg	5680
112.1	030°	TDZE	2629
Chan 58		Apt Elev	2630

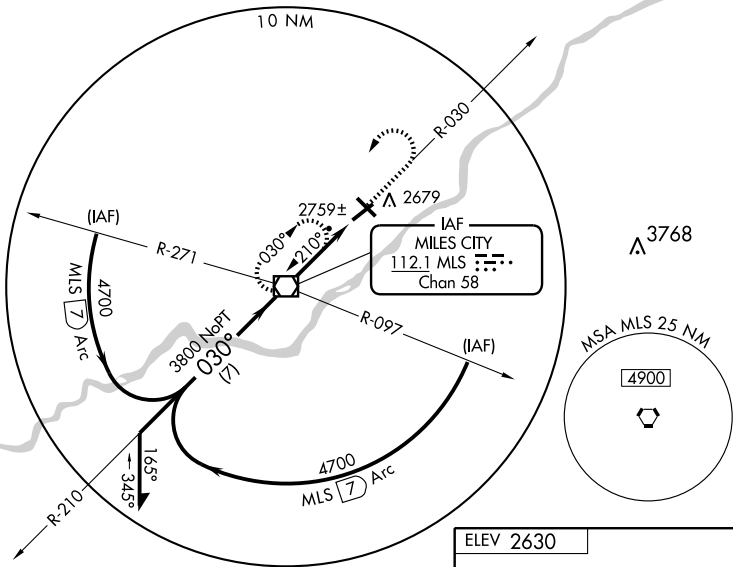
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4700 via MLS R-030 then left turn direct MLS VORTAC and hold.

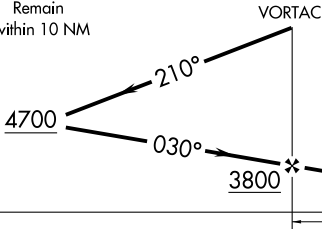
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

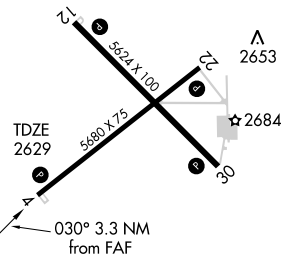
UNICOM
123.0 (CTAF) 0



Remain
within 10 NM



ELEV 2630



REIL Rwy 4, 12, 22 and 30 0
MIRL Rwy 4-22 and 12-30 0

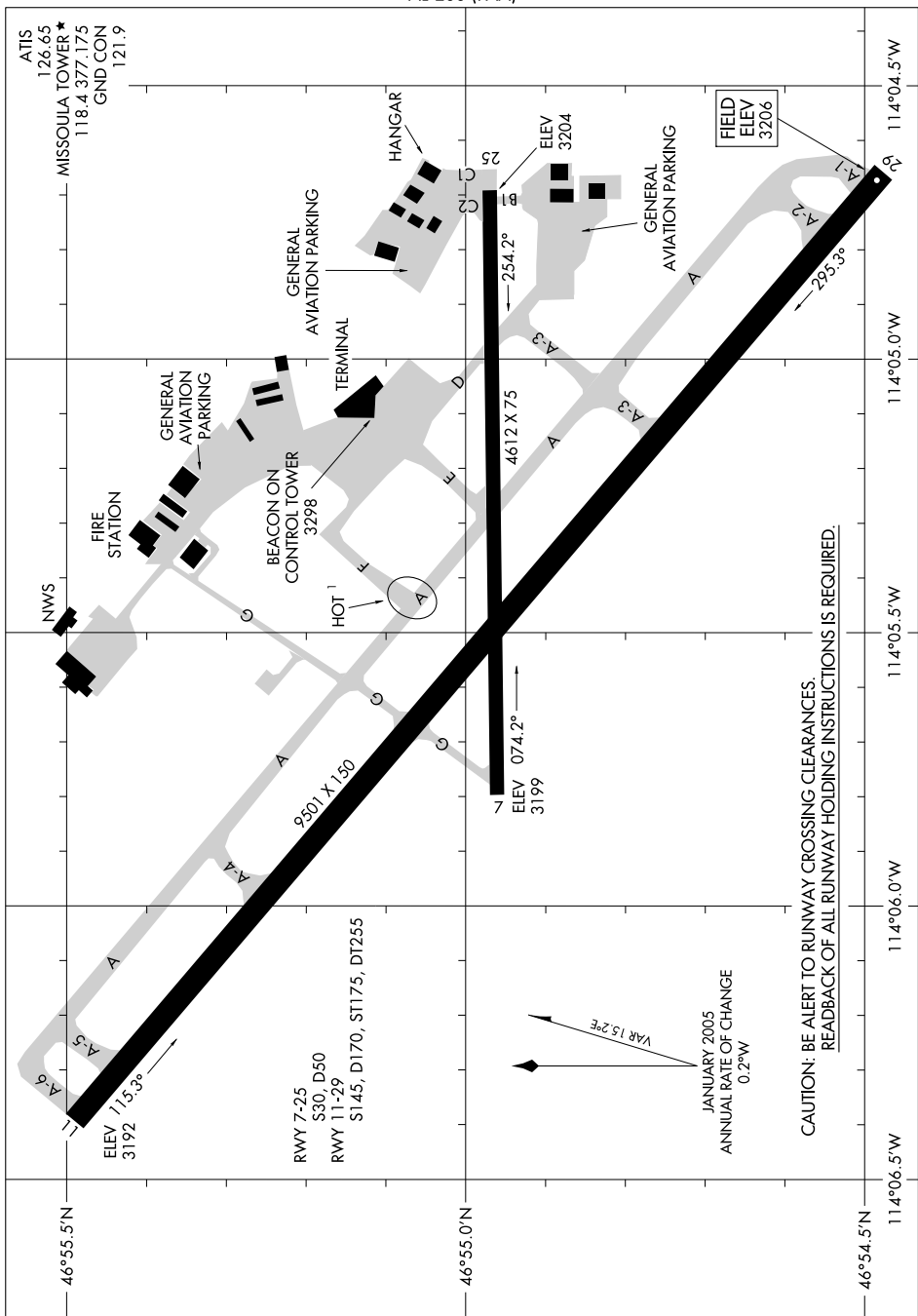
FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

AIRPORT DIAGRAM

AL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA

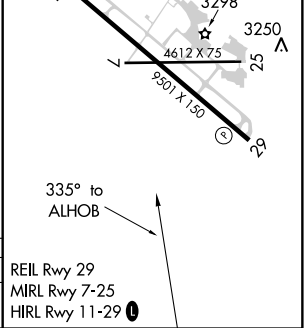
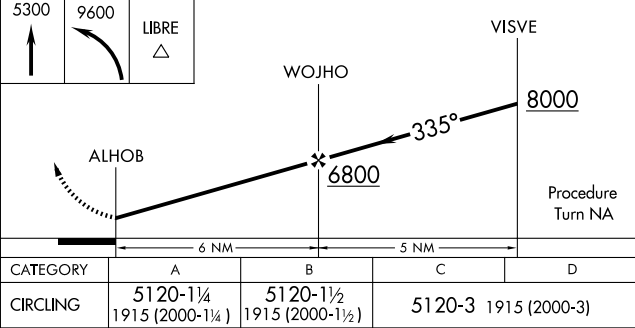
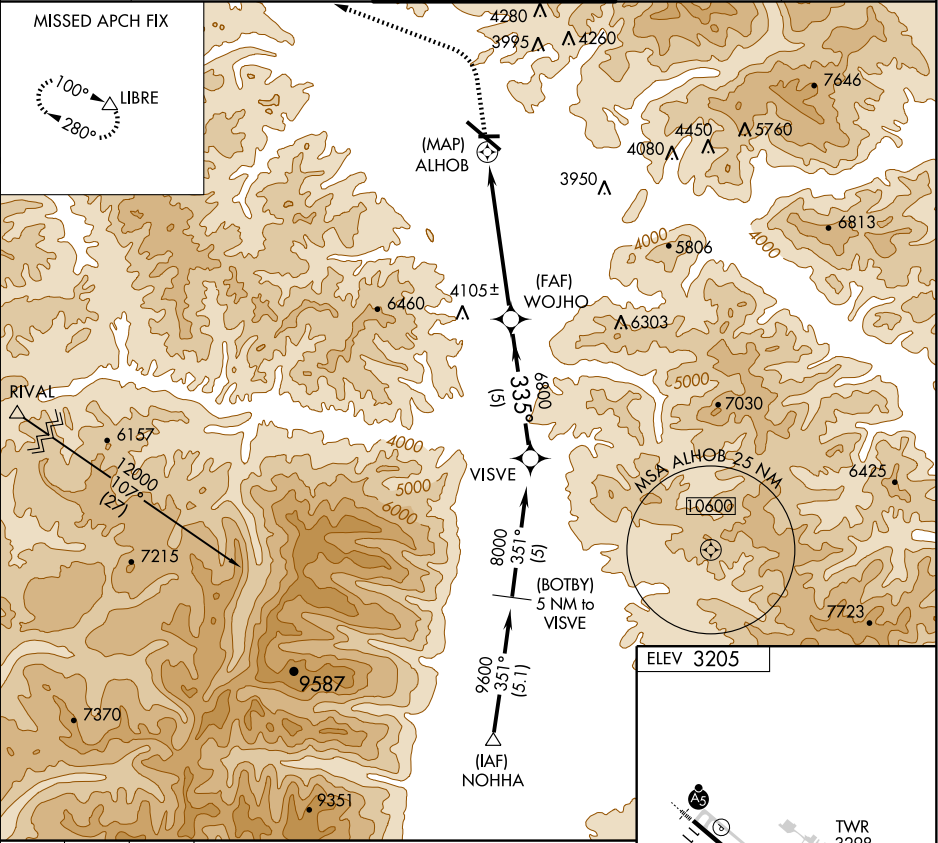


NW-1. 22 OCT 2009 to 19 NOV 2009

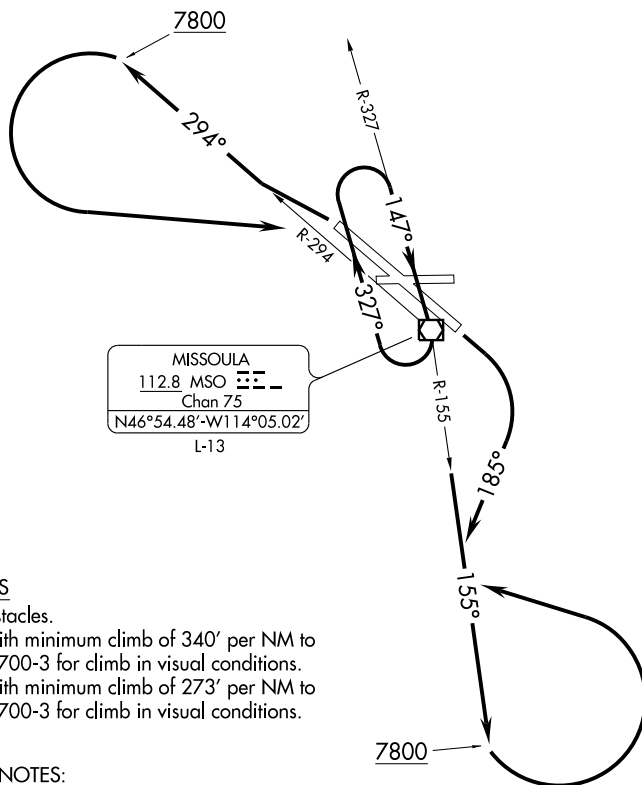
APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	3205

<div>▼</div> <div>▲ NA</div>	MISSED APPROACH: Climb to 5300 then climbing left turn to 9600 direct LIBRE WP and hold.
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ATIS 126.65	SPOKANE APP CON* 124.9 298.95	MISSOULA TOWER* 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

**TAKE-OFF MINIMUMS**

RWY 7, 25: NA- Obstacles.

RWY 11: Standard with minimum climb of 340' per NM to 7800, or 2700-3 for climb in visual conditions.

RWY 29: Standard with minimum climb of 273' per NM to 7800, or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES:

RWY 11: Tree 505' from DER, 171' left of centerline, 100' AGL/3300' MSL.

Fence 38' from DER, 487' right of centerline, 21' AGL/3213' MSL

RWY 29: Multiple AAOs beginning 6.5 NM from DER, 1.5 NM left of centerline, up to 200' AGL/4639' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

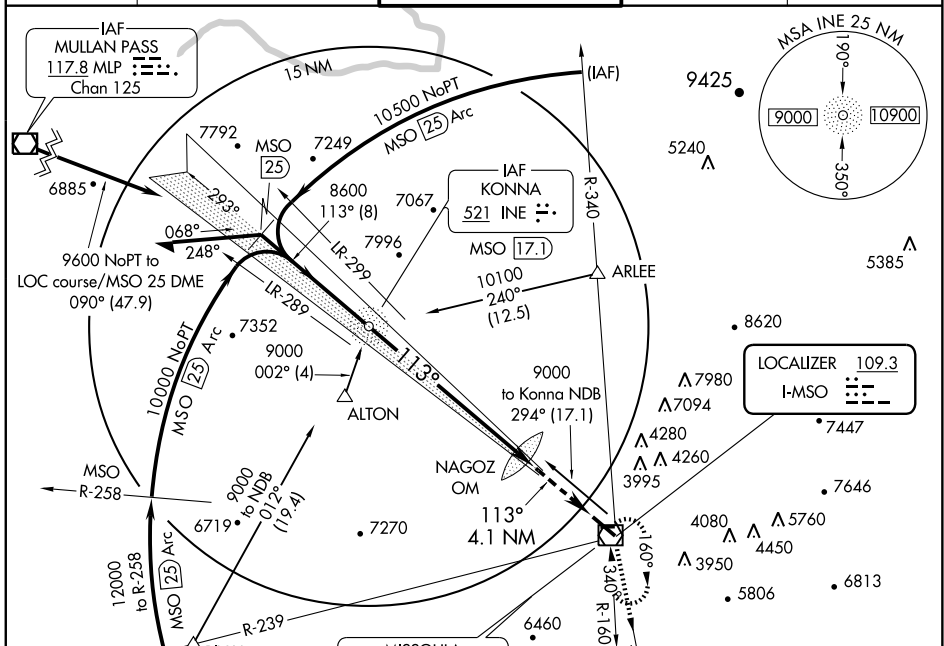
TAKE-OFF RUNWAY 11: Climbing right turn heading 185° to intercept MSO R-155, southeast bound to 7800, thence. . . .

or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

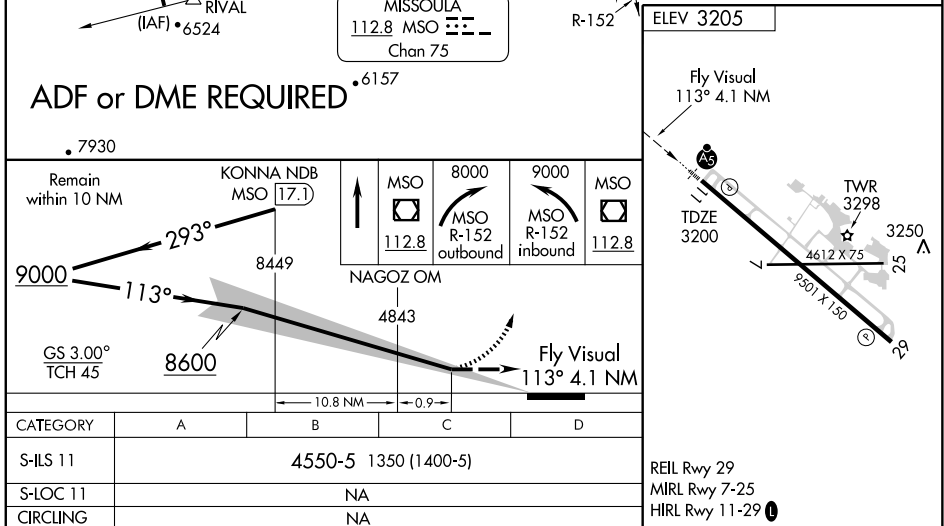
TAKE-OFF RUNWAY 29: Climb via MSO R-294 to 7800, then climbing left turn via MSO R-294 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

. . . .climbing left turn via MSO VOR/DME R-155 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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ADF or DME REQUIRED



NOTE: Chart not to scale.

RIVAL TRANSITION (KONNA2.RIVAL): After reaching 7600', continue on MSO R-294 and INE NDB 192° bearing to RIVAL INT.

L-13
10,000

VICTO
N46°34.68'
W114°00.98'
11,000

NOTE: This SID requires a minimum climb of 400' per NM to 11,000'.

NOTE: DME required.

NOTE: Chart not to scale.

SALMON
113.5 LKT $\equiv \equiv$
Chan 82
N45°01.28'-W114°05.05'
[-13. H-]

DEPARTURE ROUTE DESCRIPTION

SALMON TRANSITION (MZUA1.LKT): After reaching 7800' continue on MSO R-155 until VICTO INT. Then via 190° heading and V231 to LKT VOR/DME.

WAAS CH 65715 W11B	APP CRS 113°	Rwy Idg 9501 TDZE 3200 Apt Elev 3206
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RNAV (GPS) Y RWY 11

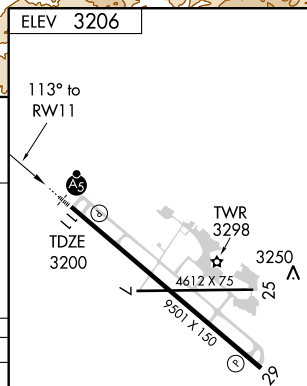
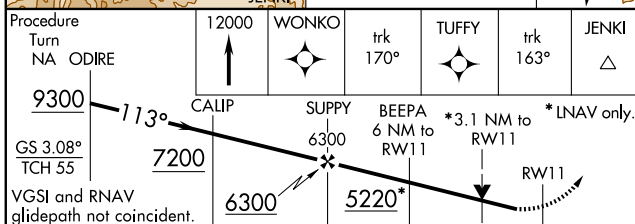
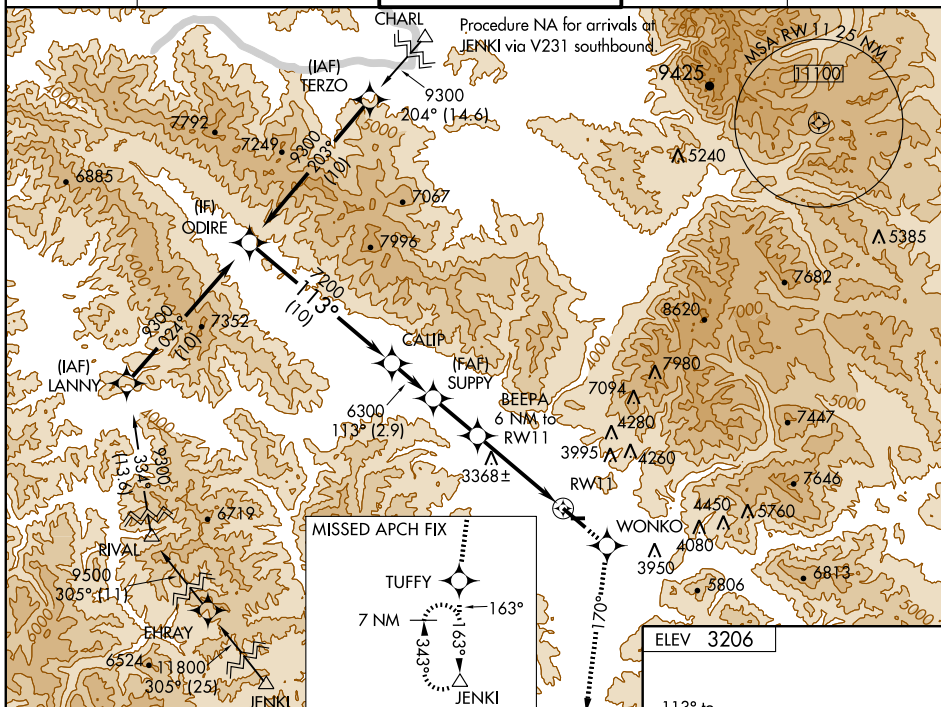
MISSOULA INTL (MSO)

V Inoperative table does not apply to LNAV % Cats A and B. For inoperative
A MALSR, increase LPV visibility all Cats to 2½ miles. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
Missed approach requires minimum climb of 290 feet per NM to 8300.

MALSR

MISSED APPROACH: Climb to 12000 direct WONKO and via track 170° to TUFFY and via track 163° to JENKI and hold.

ATIS 126.65	SPOKANE APP CON★ 124.9 298.95	MISSOULA TOWER★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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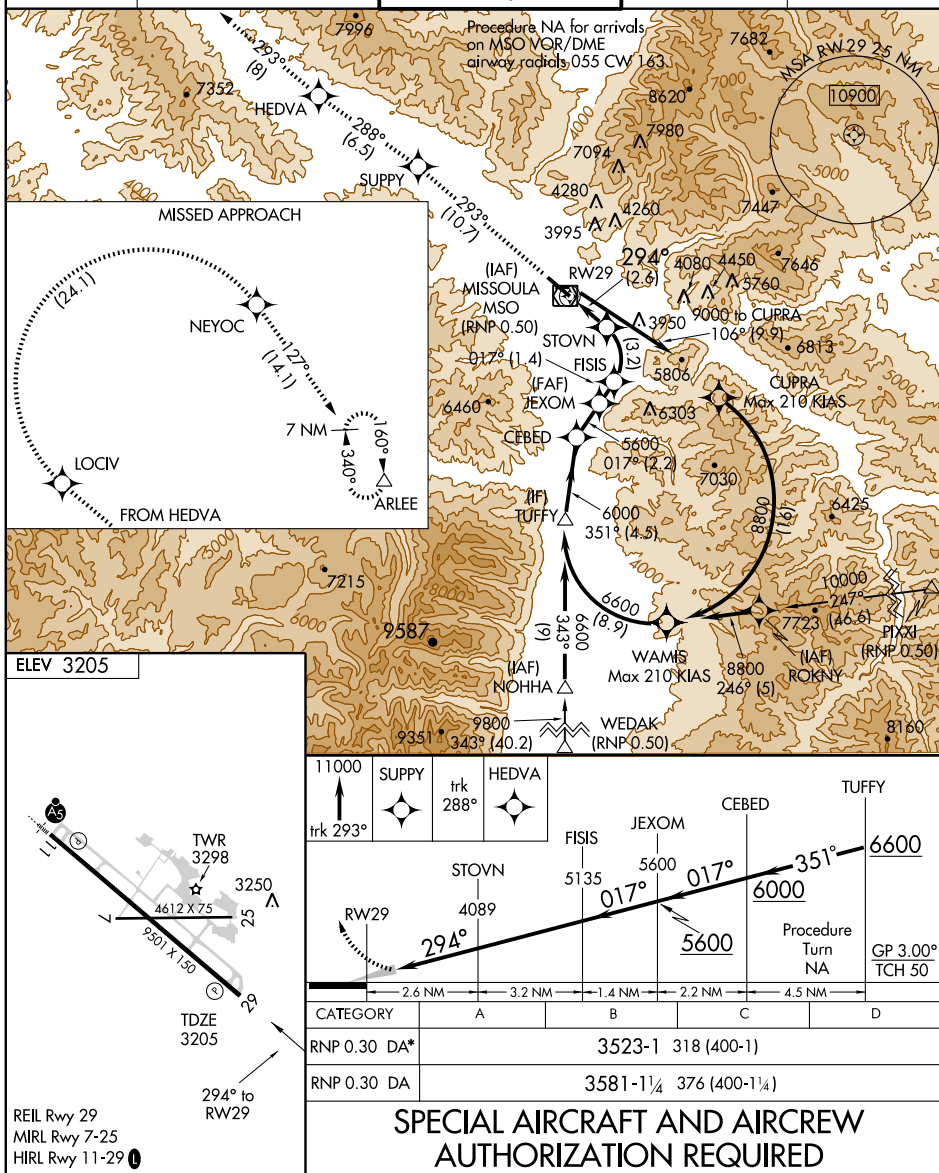


	10 NM		2.9 NM		3.1 NM		2.9 NM		3.1 NM		
CATEGORY	A		B		C		D				
LPV	DA#	3896-2 696 (700-2)									
LNAV MDA#	4220- ³ / ₄ 1020 (1100- ³ / ₄)		4220-1 1020 (1100-1)		4220-2 ¹ / ₂		1020 (1100-2 ¹ / ₂)				
LNAV MDA%	5100-1 ¹ / ₄ 1900 (2000-1 ¹ / ₄)		5100-1 ¹ / ₂ 1900 (2000-1 ¹ / ₂)		5100-2 ¹ / ₂		1900 (2000-2 ¹ / ₂)				
CIRCLING	5100-1 ¹ / ₄ 1894 (1900-1 ¹ / ₄)		5100-1 ¹ / ₂ 1894 (1900-1 ¹ / ₂)		5100-3		1894 (1900-3)				

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 **L**

RNAV (RNP) RWY 29
MISSOULA INTL (MSO)

MISSED APPROACH: Climb to 11000 via track 293° to SUPPY, and via track 288° to HEDVA, and via track 293° to LOCIV, and via right turn to NEYOC, and via track 127° to ARLEE and hold.

UNICOM
122.95

APP CRS 113°	Rwy Idg TDZE Apt Elev	9501 3200 3206
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RNAV (RNP) Z RWY 11

MISSOULA INTL (MSO)

GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.12 visibility all Cats to 1¼, RNP 0.30 visibility all Cats to 2½.

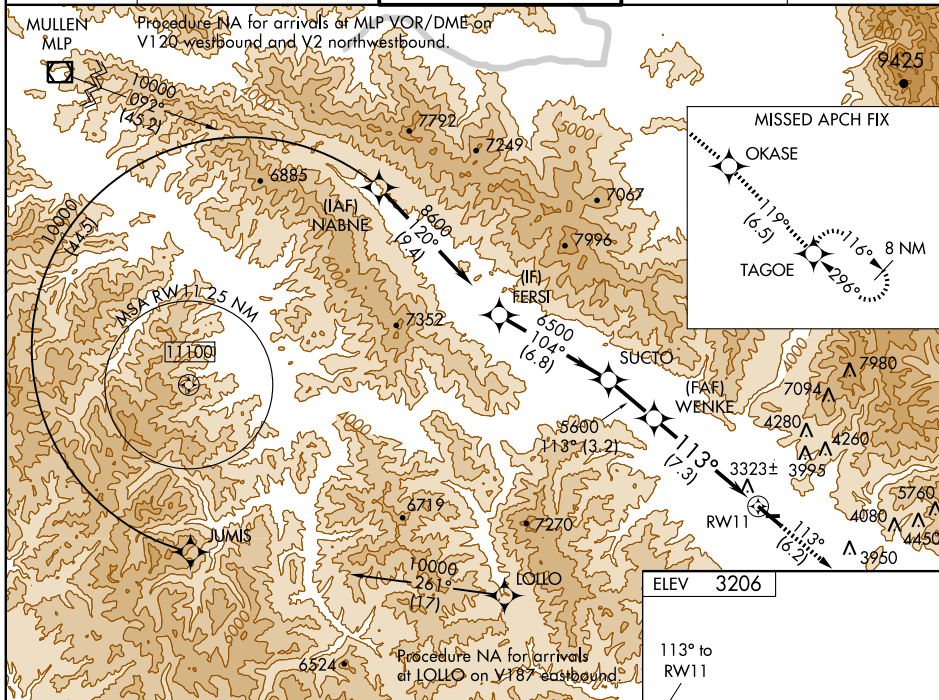
Missed approach requires minimum climb of 350 feet per NM to 8300, if unable see RNAV (GPS) Y RWY 11.

MALSR



MISSED APPROACH:
Climb to 13000 via track
113° to OKASE, and via
track 119° to TAGOE
and hold, continue
climb-in-hold to 13000.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA

FERSI

SUCTO

WENKE

VGSI and RNAV glidepath not coincident.

RW11

GP 3.00° TCH 45

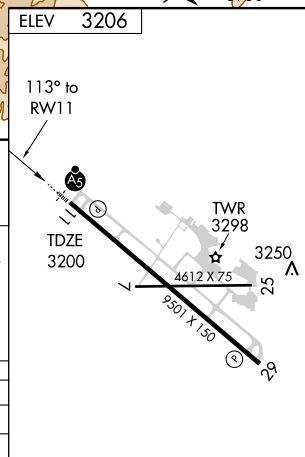
6.8 NM

3.2 NM

7.3 NM

CATEGORY	A	B	C	D
RNP 0.12 DA **		3518-¾	318 (400-¾)	
RNP 0.30 DA ##		3880-2	680 (700-2)	

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



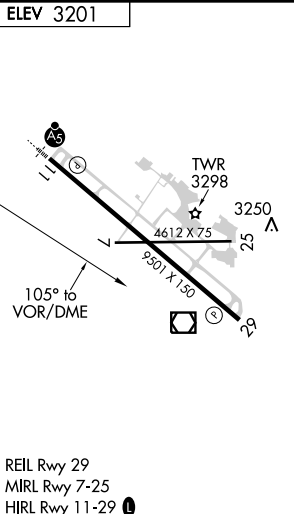
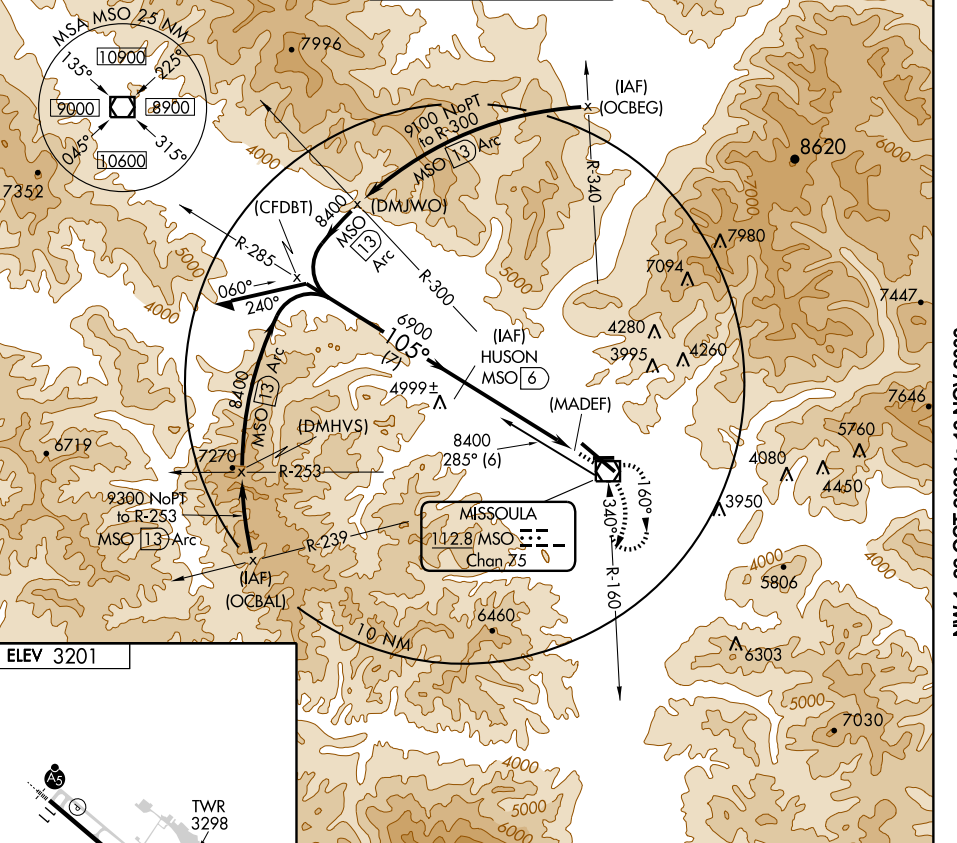
REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29

▼

▲

MISSUED APPROACH: Climb direct to MSO VOR/DME, then climbing right turn to 8000 outbound on R-160 then climbing left turn to 9000 inbound on the R-160 to MSO VOR/DME and hold.

ATIS 126.65	SPOKANE APP CON* 124.9 298.95	MISSOULA TOWER* 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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Remain within 10 NM			
CATEGORY	A	B	C
CIRCLING	5060-1¼ 1859 (1900-1¼)	5060-1½ 1859 (1900-1½)	5060-3 1859 (1900-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME MSO 112.8 Chan 75	APP CRS 335°	Rwy Idg N/A TDZE N/A Apt Elev 3201
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VOR/DME or GPS-B
MISSOULA INTL (MSO)



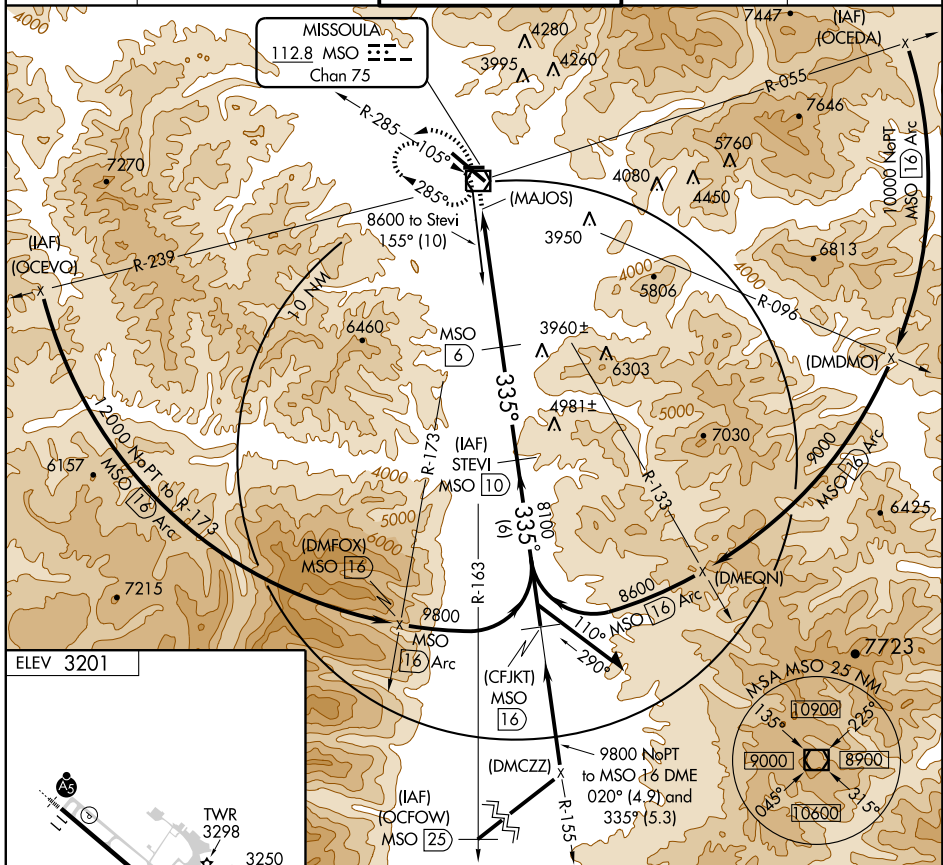
MISSED APPROACH: Climb direct MSO VOR/DME, then climbing left turn to 7500 on R-285 then climbing left turn to 9000 direct MSO VOR/DME and hold.

ATIS
126.65

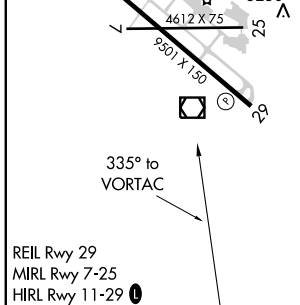
SPOKANE APP CON ★
124.9 298.95

MISSOULA TOWER★
118.4 (CTAF) **L** 377.175

GND CON
121.9

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009



APP CRS	Rwy Idg	N/A
302°	TDZE	N/A
	Apt Elev	2250

RNAV (GPS)-A

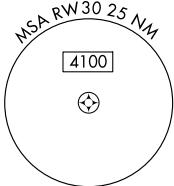
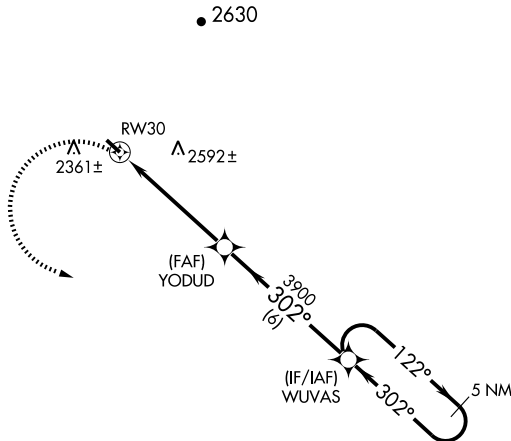
PLENTYWOOD/ SHER-WOOD (P'WD)

NA Procedure NA at night. DME/DME RNP-0.3 NA.
Use Slouin Fld Intl, ND altimeter setting, if not received, use Wolf Point/
L.M. Clayton altimeter setting and increase all MDAs 40 feet.

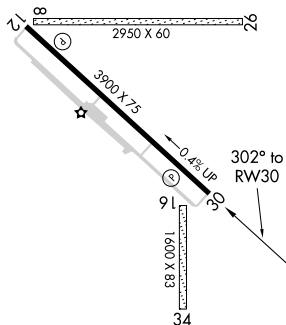
MISSED APPROACH: Climbing left turn to 5000 direct WUVAS and hold.

SALT LAKE CENTER
126.85 305.2

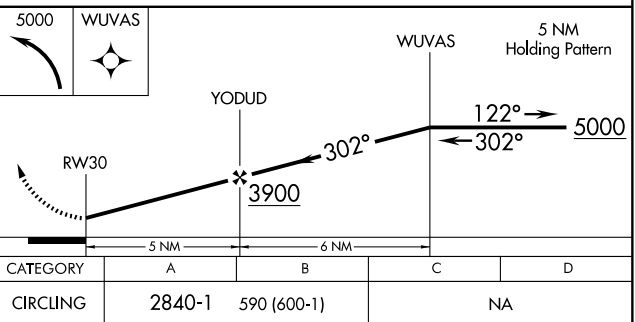
UNICOM

122.8 (CTAF) **L**

ELEV 2250



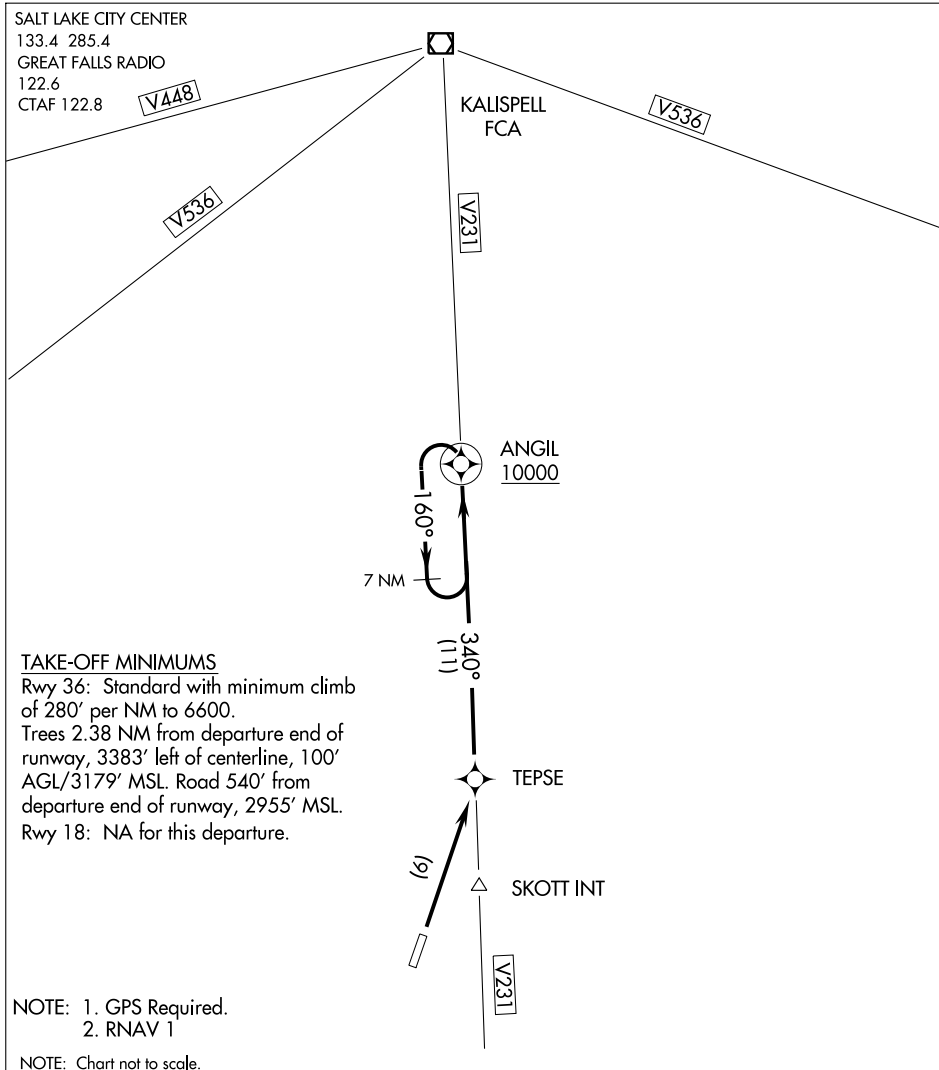
Procedure NA for arrivals at ISN VORTAC via V430 eastbound.

MIRL Rwy 12-30 **L**

NW-1. 22 OCT 2009 to 19 NOV 2009

(ANGIL1.ANGIL) 07074 SL-9529 (FAA)
ANGIL ONE DEPARTURE (RNAV) (OBSTACLE)

POLSON (8S1)
POLSON, MONTANA



NW-1, 22 OCT 2009 to 19 NOV 2009



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb direct to TEPSE WP, then via 340° track to ANGIL WP,
Thence....

....Climb in the ANGIL WP holding pattern to cross ANGIL WP at or above 10,000 prior
to proceeding on course.

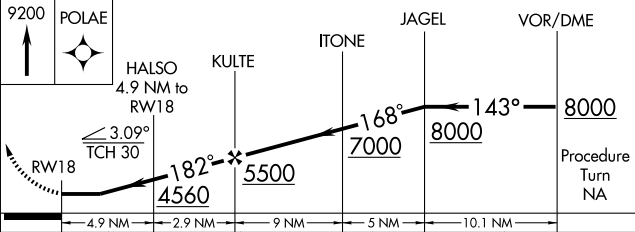
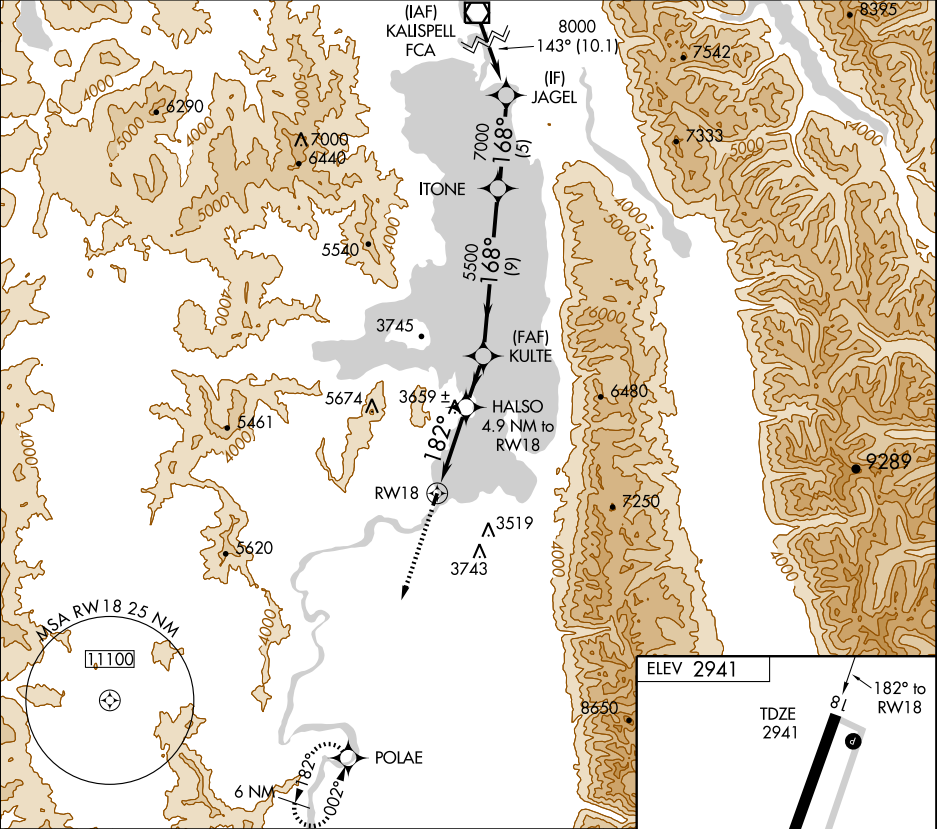
APP CRS	Rwy Idg	4195
182°	TDZE	2941
	Apt Elev	2941

RNAV (GPS) RWY 18

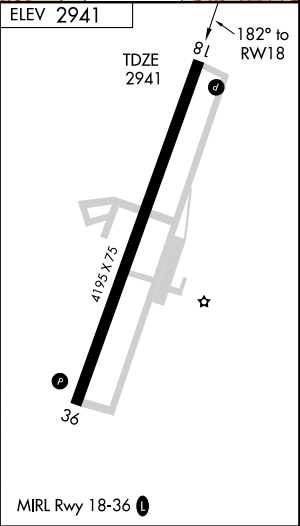
POLSON (8S1)

<div><div>▼</div><div>NA</div></div> <div>Procedure NA at night. DME/DME RNP- 0.3 NA. Use Glacier Park Intl altimeter setting.</div>	MISSED APPROACH: Climb to 9200 direct POLAE and hold.
--	---

GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA
CIRCLING	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA



APP CRS	Rwy Idg	4195
013°	TDZE	2941
	Apt Elev	2941

RNAV (GPS) RWY 36
POLSON (8S1)

POLSON (8S1)

T	Procedure NA at night.
A NA	DME/DME RNP-0.3 NA. Use Glacier Park Intl altimeter setting.

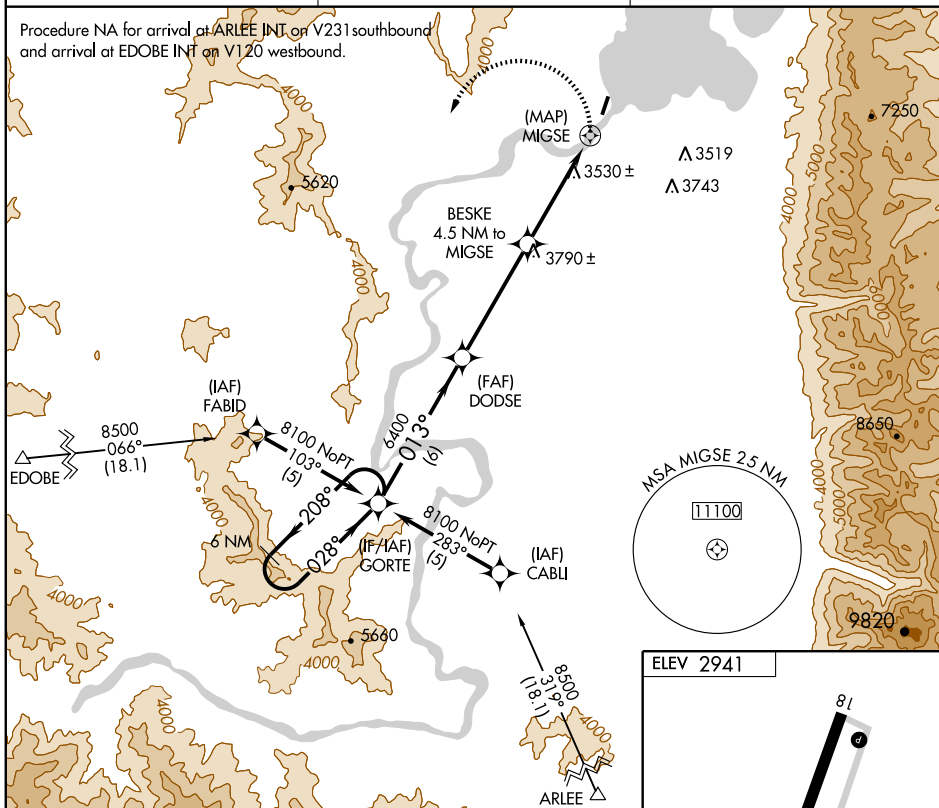
MISSED APPROACH: Climbing left turn to 9000 direct GORTE WP and hold.

GLACIER PARK INTL ASOS
132.625

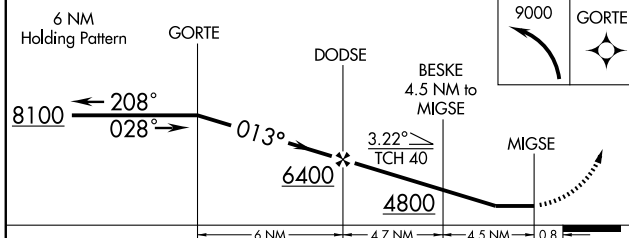
SALT LAKE CENTER
133.4 285.4

UN|COM
122.8 (CTAF) **L**

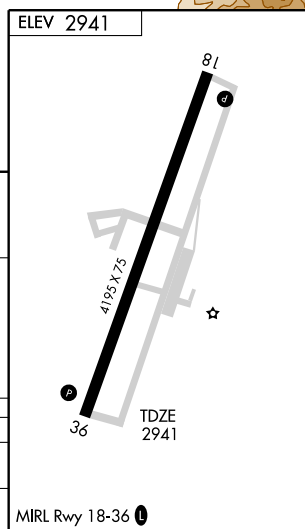
Procedure NA for arrival at ARLEE INT on V231 southbound and arrival at EDOBE INT on V120 westbound.



NW-1. 22 OCT 2009 to 19 NOV 2009



CATEGORY	A	B	C	D
LNAV	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	
CIRCLING	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	

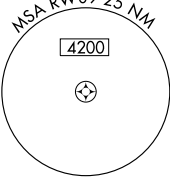
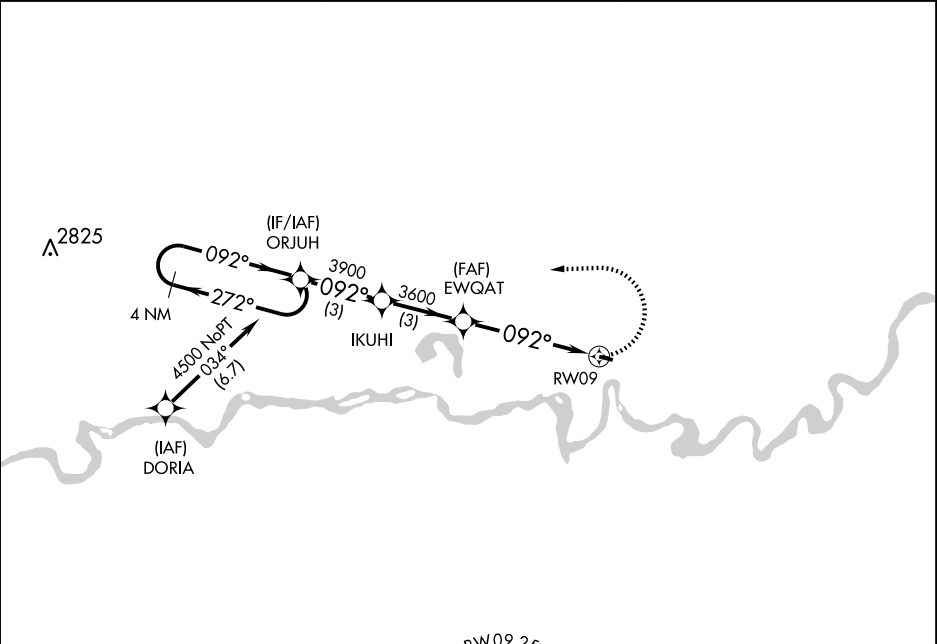


APP CRS	Rwy Idg	3030
092°	TDZE	2005
	Apt Elev	2005

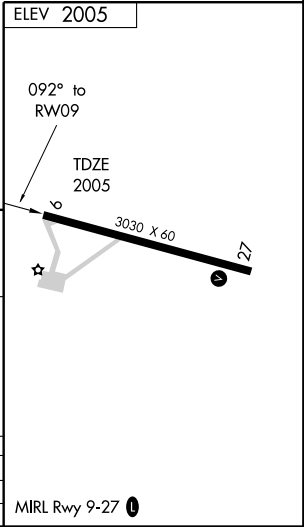
RNAV (GPS) RWY 9
POPLAR (42S)

▲ NA	Use Wolf Point altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 4500 direct ORJUH WP and hold.
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WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4 NM Holding Pattern				
CATEGORY	A	B	C	D
LNAV MDA	2480-1	475 (500-1)	NA	
CIRCLING	2500-1	495 (500-1)	NA	



APP CRS
273°

Rwy Idg	3030
TDZE	2005
Apt Elev	2005

RNAV (GPS) RWY 27

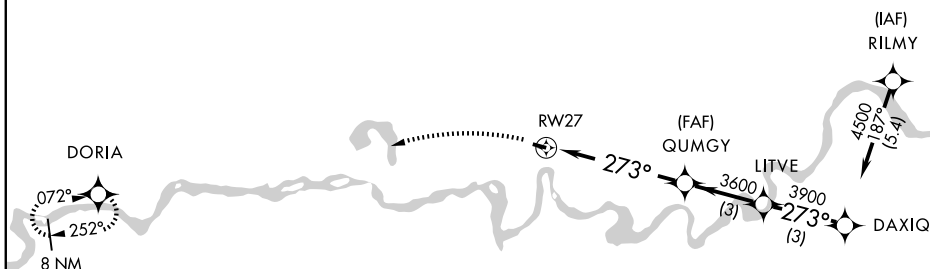
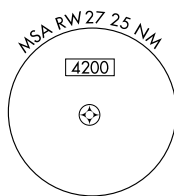
POPLAR (42S)

A NA Use Wolf Point altimeter setting.
GPS or RNP-0.3 required. DME/DME RNP-0.3 not authorized.

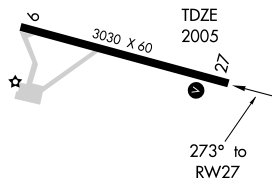
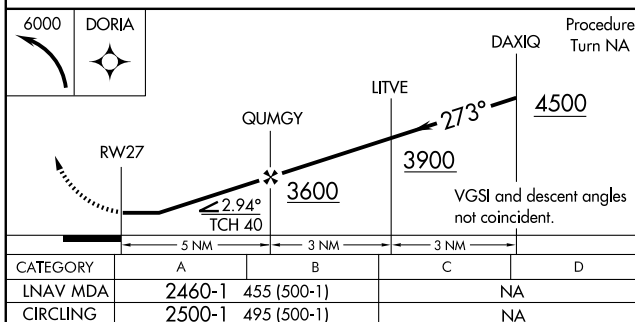
MISSED APPROACH: Climbing left turn to 6000 direct DORJA WP and hold.

WOLF POINT ASOS
118.325

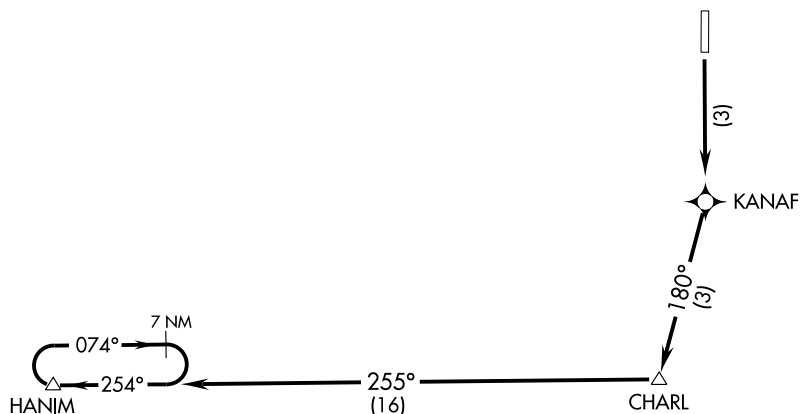
SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L** $\Delta 2800$ 

ELEV 2005

MIRL Rwy 9-27 **L**

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: Standard.

Rwy 34: NA. See RONAN DEPARTURE.

TAKE-OFF OBSTACLE NOTE:

Rwy 16: Tree 485' from DER, 386' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 13000 direct KANAF and via track 180° to CHARL and via track 255° to HANIM and hold, continue climb-in-hold to 13000 before proceeding on course.

WAAS CH 45814 W16A	APP CRS 165°	Rwy Idg TDZE Apt Elev 4800 3086 3086
--	------------------------	--

RNAV (GPS) RWY 16

RONAN (7S)

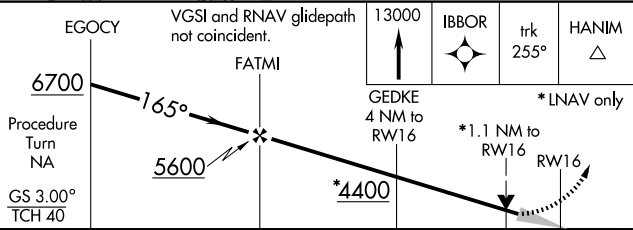
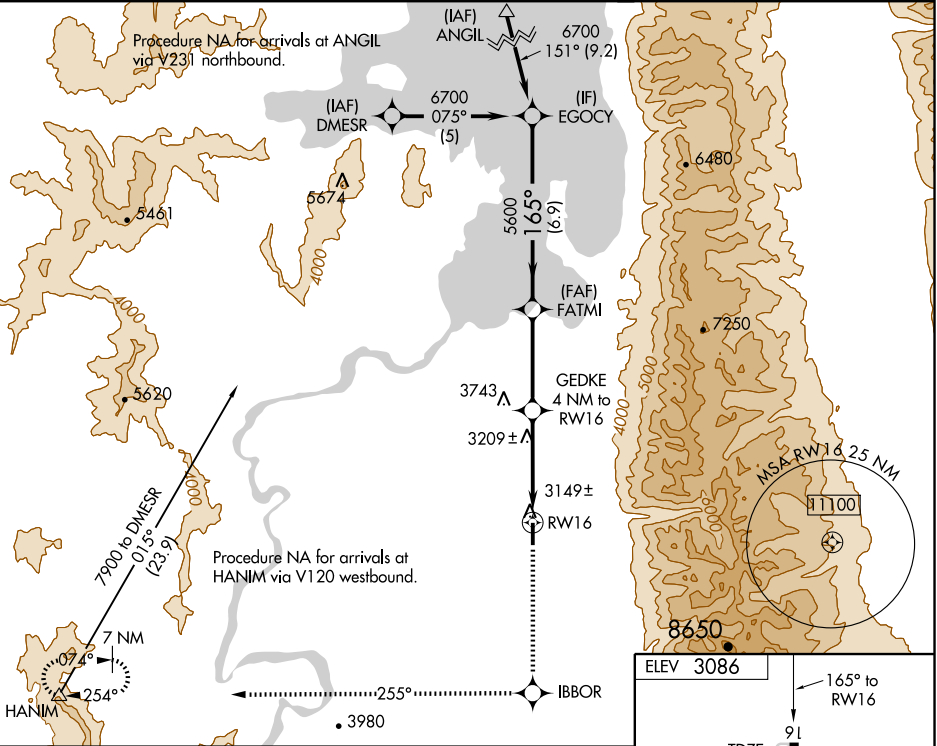
▼

▲NA

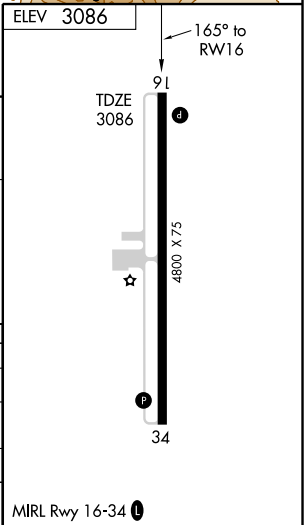
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 54°C (130°F).
Circling NA east of Rwy 16 and 34. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 13000 direct IBBOR and via track 255° to HANIM and hold, continue climb-in-hold to 13000.

AWOS-3 122.8	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF)
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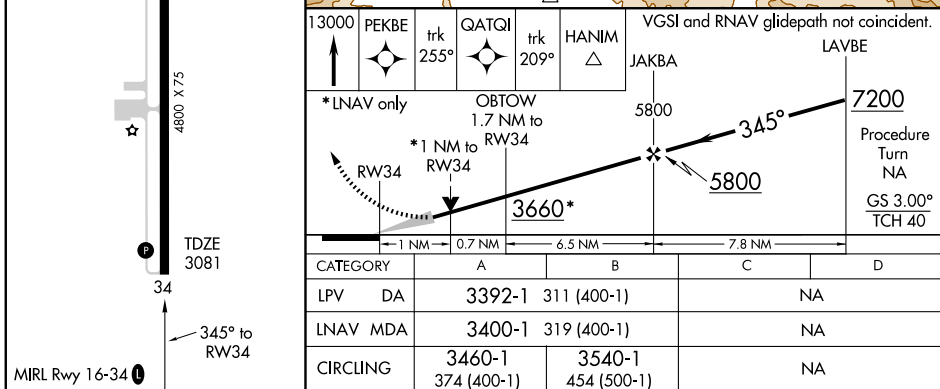
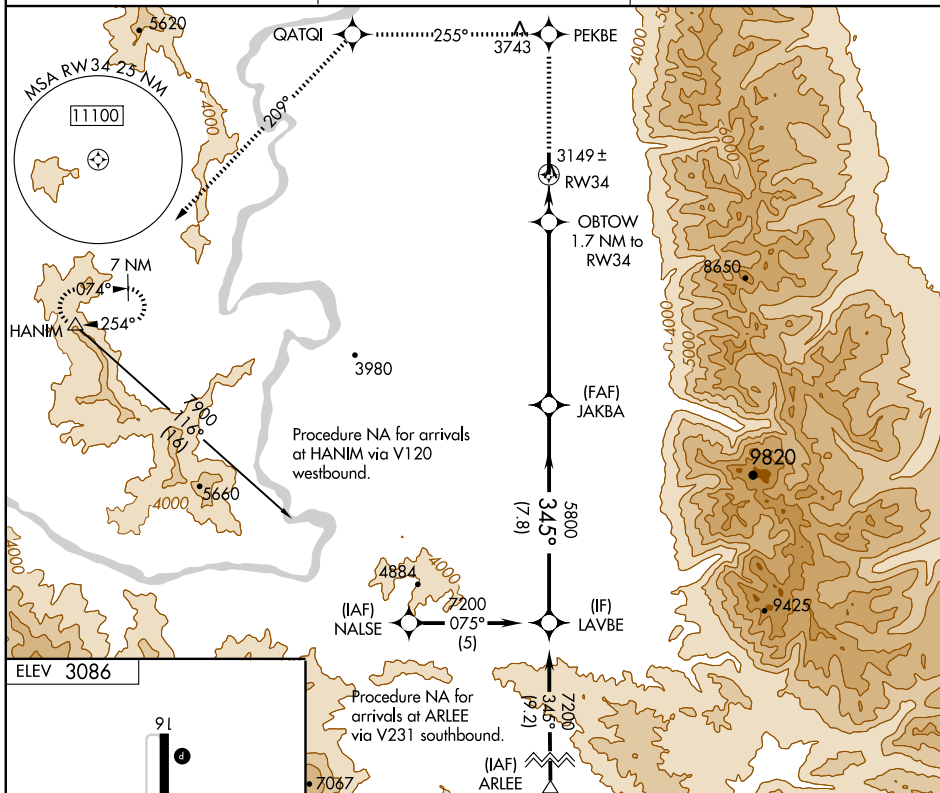
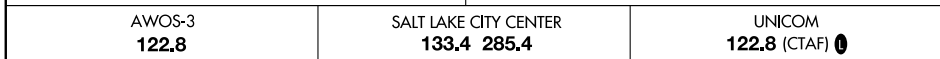


CATEGORY	A	B	C	D
LPV DA	3386-1	300 (300-1)	NA	NA
LNAV/VNAV DA	3531-1½	445 (500-1½)	NA	NA
LNAV MDA	3460-1	374 (400-1)	NA	NA
CIRCLING	3460-1 374 (400-1)	3540-1 454 (500-1)	NA	NA

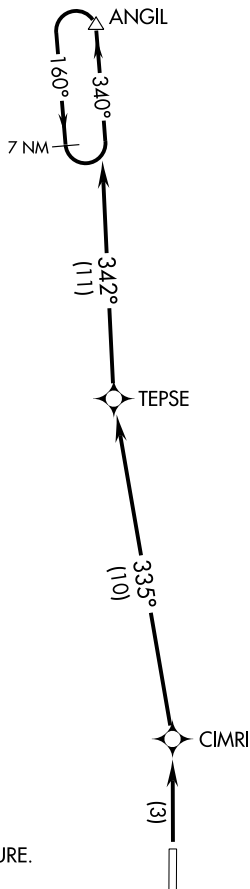


NW-1. 22 OCT 2009 to 19 NOV 2009

RNAV (GPS) RWY 34
RONAN (7S0)



SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: NA. See HANIM ONE DEPARTURE.

Rwy 34: Standard.

TAKE-OFF OBSTACLE NOTES:

Rwy 34: Building 158' from DER, 370' left of centerline, 40' AGL/3130' MSL.

Tree 1358' from DER, 556' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale

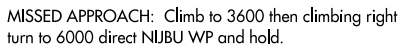
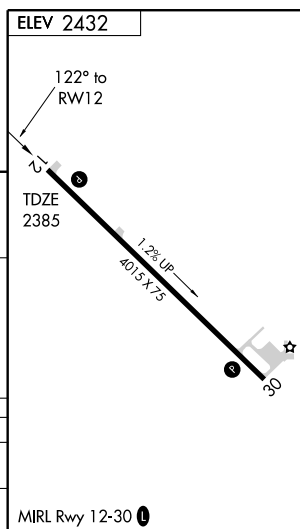
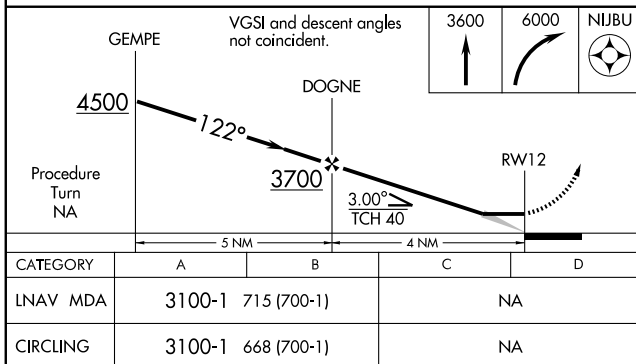
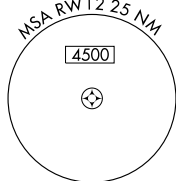
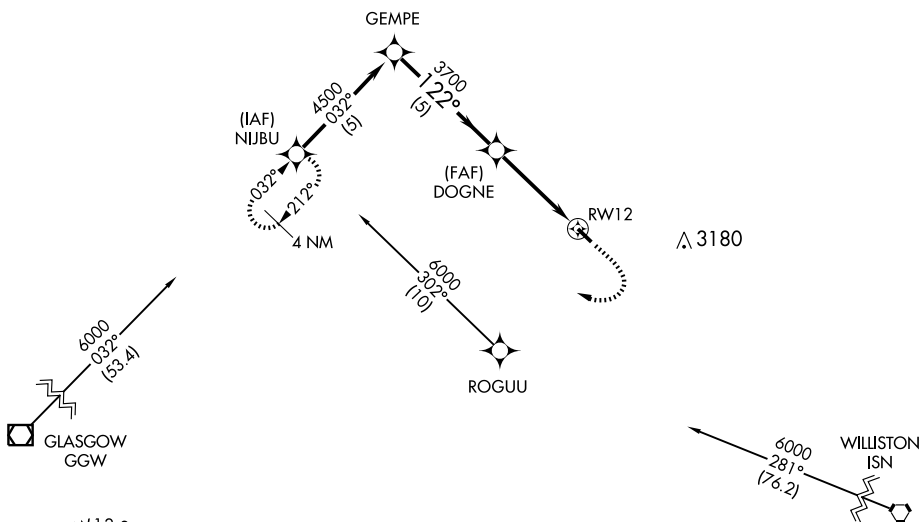


DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 10000 direct CIMRI and via track 335° to TEPSE and via track 342° to ANGIL and hold, continue climb-in-hold to appropriate MEA before proceeding on course.

RNAV (GPS) RWY 12
SCOBAY (9S2)

SCOBAY (9S2)

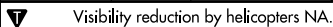
UNICOM
122.8 (CTAF) **L**

NDB SBX
347

APP CRS
213°

Rwy Idg	5004
TDZE	3443
Apt Elev	3443

NDB RWY 23
SHELBY (SBX)

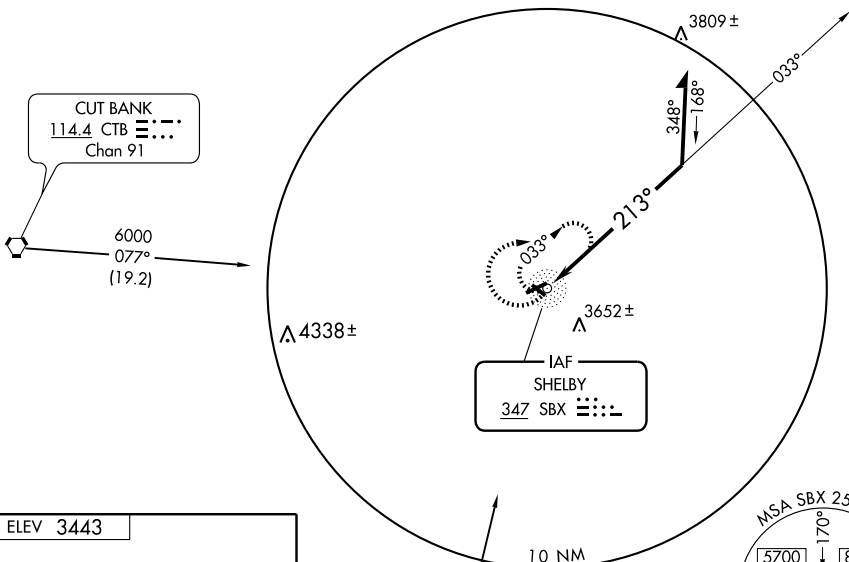


NA Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5500 in SBX NDB holding pattern.

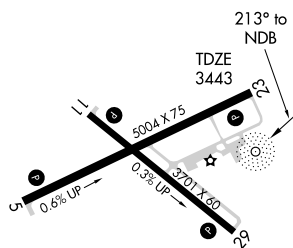
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 3443



BRADZ

5500

SBX

NDB

Remain
within 10 NM

500

CATEGORY	A	B	C	D
S-23	4240-1 797 (800-1)	4240-1 ¼ 797 (800-1 ¼)	4240-2 ¼ 797 (800-2 ¼)	NA
CIRCLING	4240-1 797 (800-1)	4240-1 ¼ 797 (800-1 ¼)	4240-2 ¼ 797 (800-2 ¼)	NA

MIRL Rwy 5-23 and 11-29 **L**

APP CRS	Rwy Idg	5004
230°	TDZE	3443
	Apt Elev	3443

RNAV (GPS) RWY 23

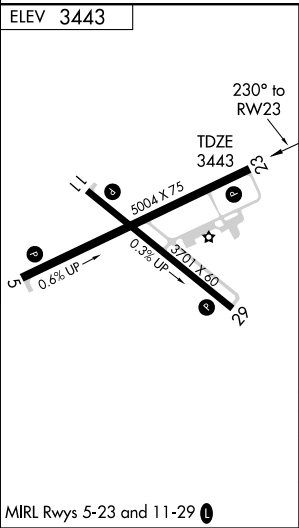
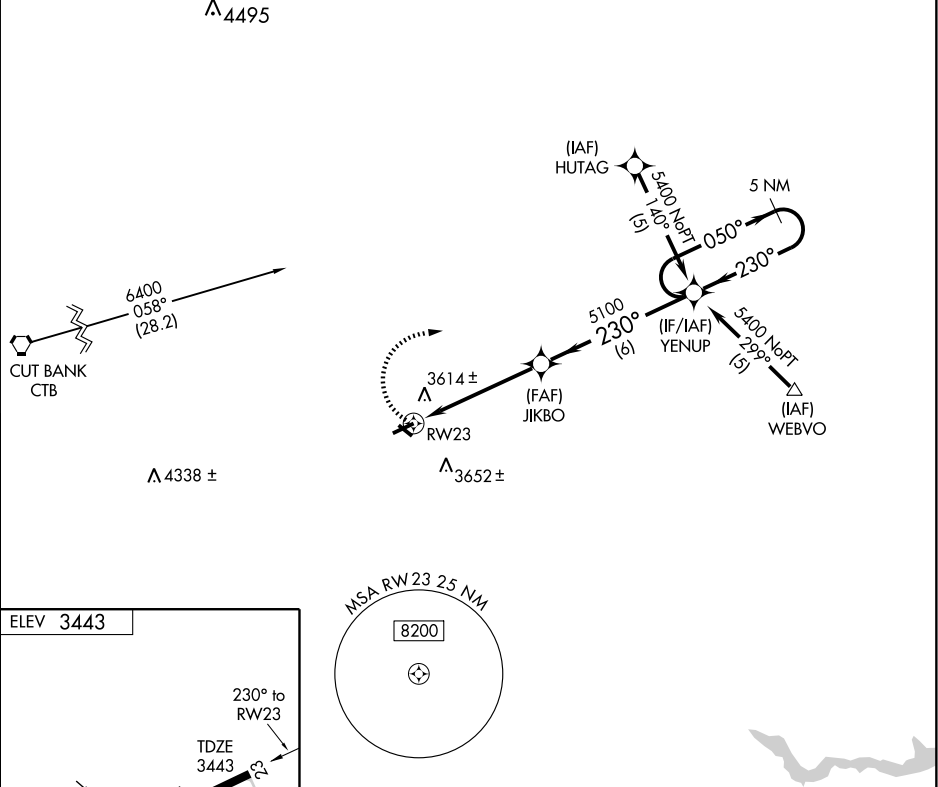
SHELBY (SBX)

▼ DME/DME RNP- 0.3 NA.
Circling NA at night.
▲ NA Visibility reduction by helicopters NA.
Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5400 direct YENUP and hold.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) 1



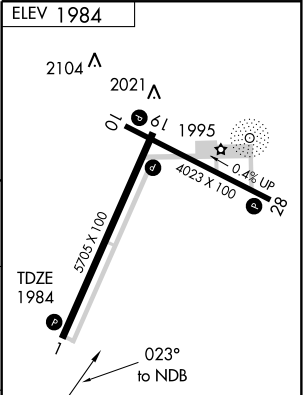
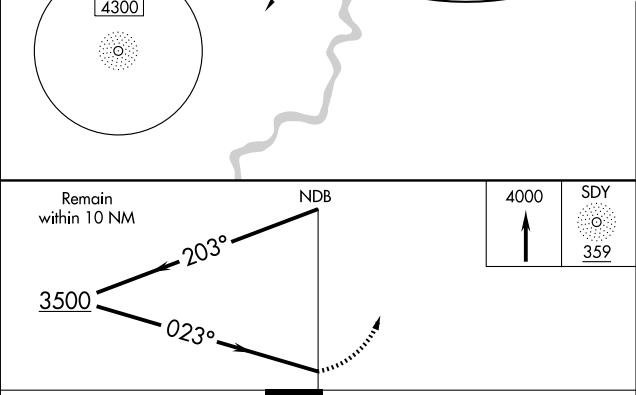
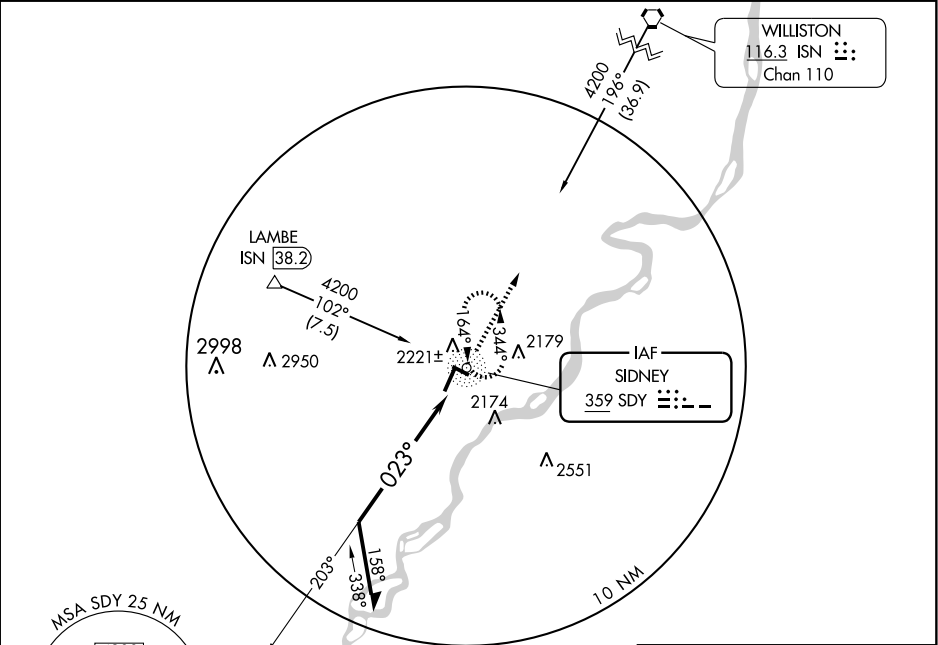
<div><div>5400</div><div>YENUP</div><div></div></div>		<div><div>YENUP</div><div>5 NM Holding Pattern</div><div></div></div>		
<div><div>RW23</div><div></div></div>				
CATEGORY	A	B	C	D
LNAV MDA	4060-1	617 (700-1)	4060-1¾ 617 (700-1¾)	NA
CIRCLING	4120-1	677 (700-1)	4120-2 677 (700-2)	NA

NDB SDY	APP CRS	Rwy Idg	5705
359	023°	TDZE	1984
		Apt Elev	1984

NDB RWY 1
SIDNEY-RICHLAND MUNI (SDY)

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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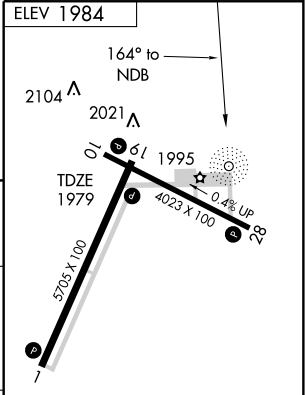
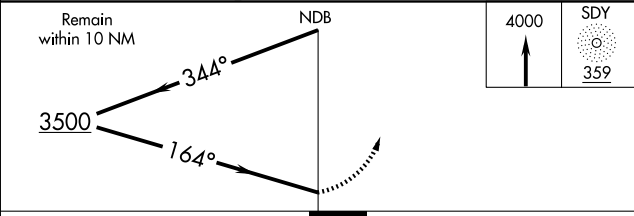
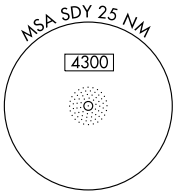
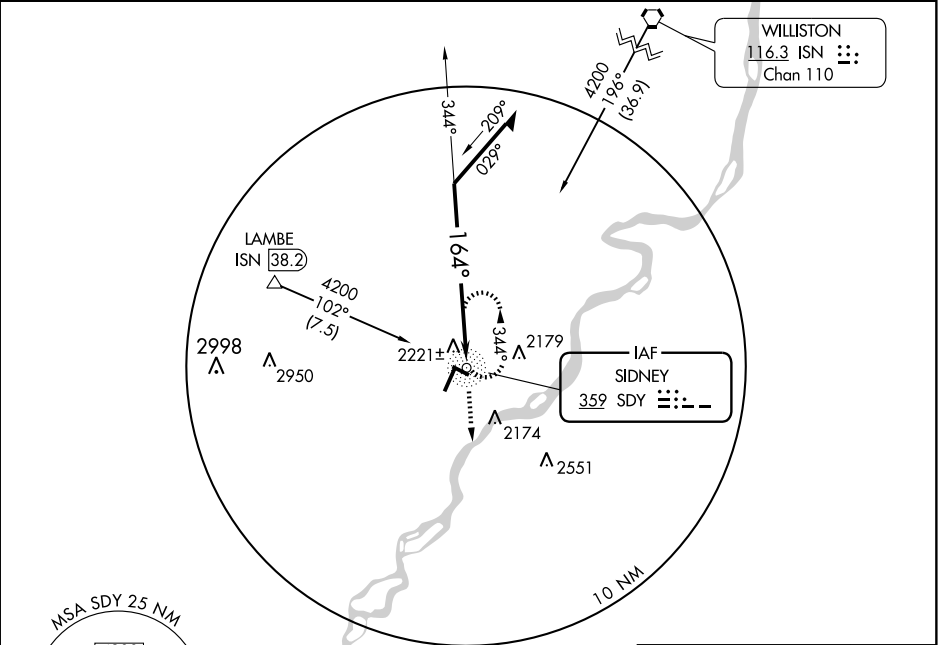
CATEGORY	A	B	C	D
S-1	2720-1 736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)	2720-2¼ 736 (800-2¼)
CIRCLING	2720-1 736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)	2720-2¼ 736 (800-2¼)
Knots Min:Sec				
60 90 120 150 180				

NDB SDY	APP CRS	Rwy Idg	5705
359	164°	TDZE	1979
		Apt Elev	1984

NDB RWY 19
SIDNEY-RICHLAND MUNI (SDY)

<div><div></div><div></div></div>	MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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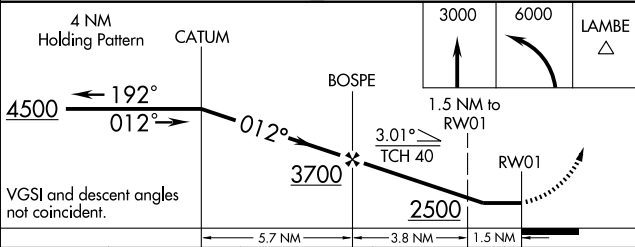
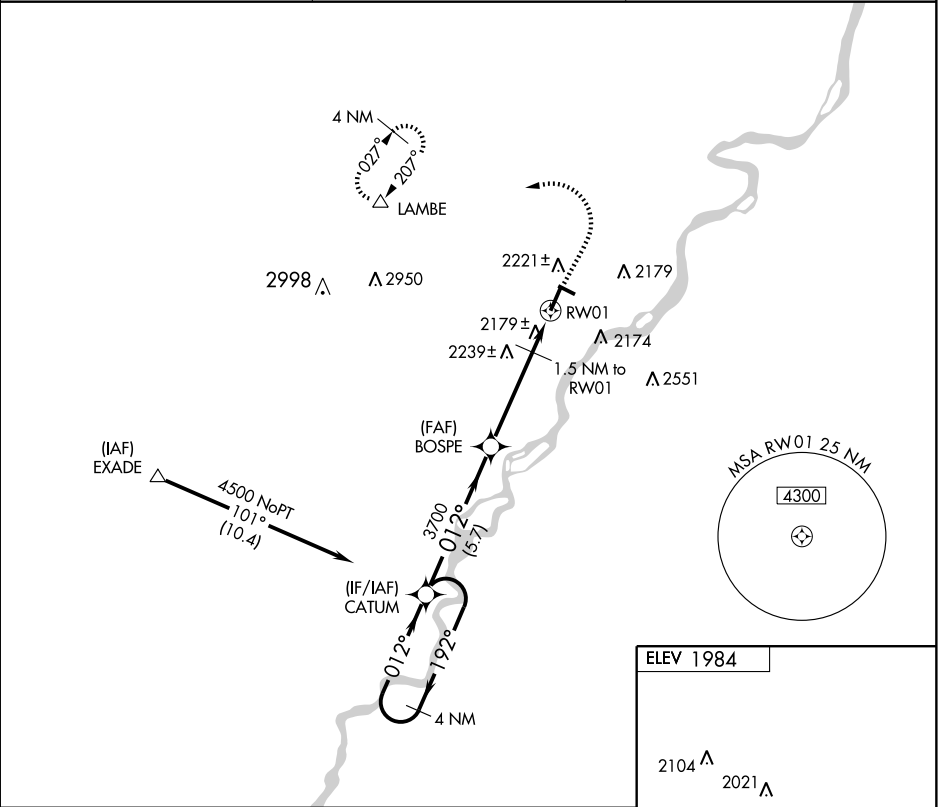
CATEGORY	A	B	C	D
S-19	2780-1 801 (800-1)	2780-1¼ 801 (800-1¼)	2780-2¼ 801 (800-2¼)	2780-2½ 801 (800-2½)
CIRCLING	2780-1 796 (800-1)	2780-1¼ 796 (800-1¼)	2780-2¼ 796 (800-2¼)	2780-2½ 796 (800-2½)
REIL Rwy 1, 19, 10, and 28 MIRL Rwy 1-19 and 10-28				
Knots 60 90 120 150 180 Min:Sec				

APP CRS	Rwy Idg	5705
012°	TDZE	1984
	Apt Elev	1984

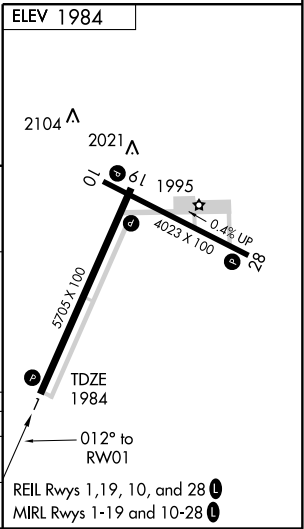
RNAV (GPS) RWY 1
SIDNEY-RICHLAND MUNI (SDY)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3000 then climbing left turn to 6000 direct LAMBE WP and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	2440-1	456 (500-1)	2440-1½ 456 (500-1½)	2440-1½ 456 (500-1½)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)



APP CRS
192°

Rwy Idg	5705
TDZE	1979
Apt Elev	1984

RNAV (GPS) RWY 19

SIDNEY-RICHLAND MUNI (SDY)



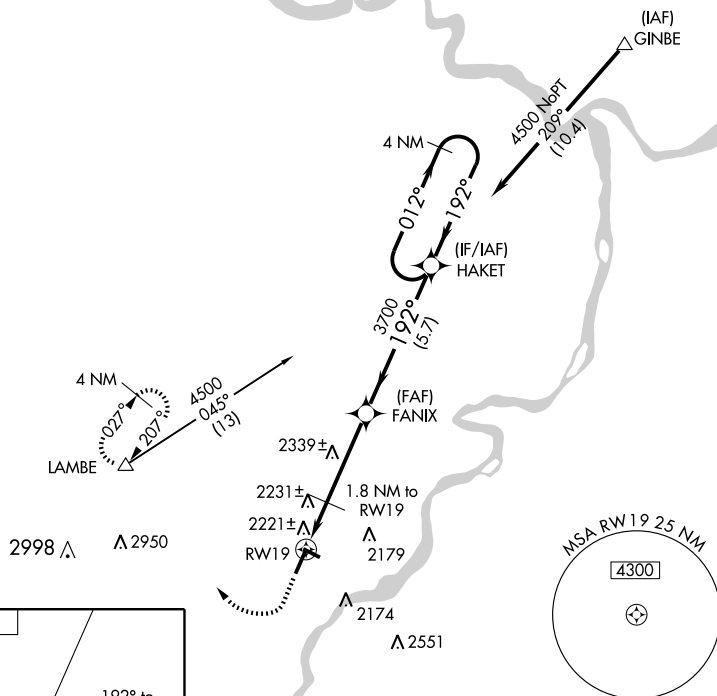
A_{NA} GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct LAMBE WP and hold.

AWOS-3
119.275

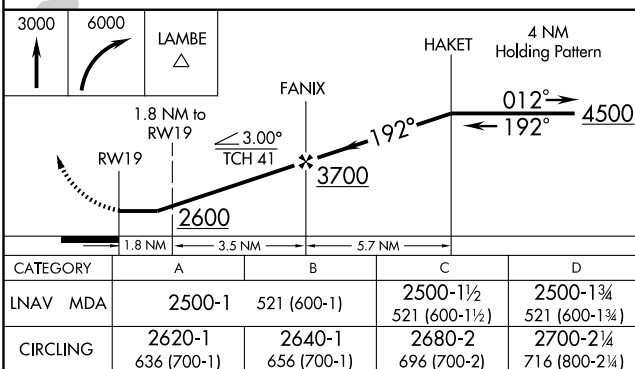
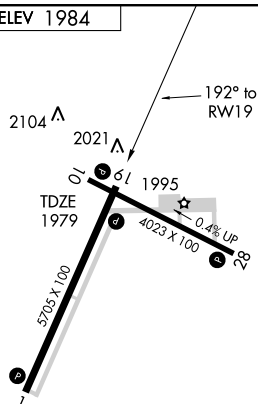
GREAT FALLS RADIO
123.65

UNICOM
122.8 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 1984

REIL Rwy's 1, 19, 10, and 28 **L**MIRL Rwy 1-19 and 10-28 **L**


APP CRS 162°	Rwy Idg TDZE Apt Elev	N/A N/A 3610
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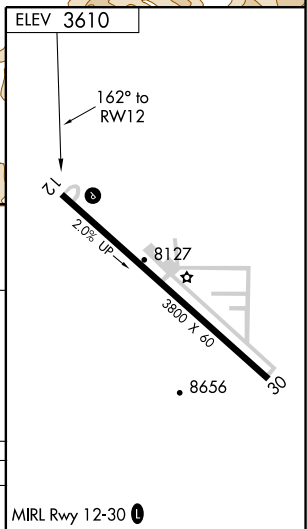
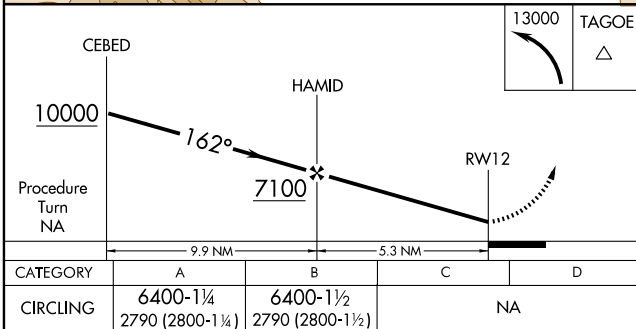
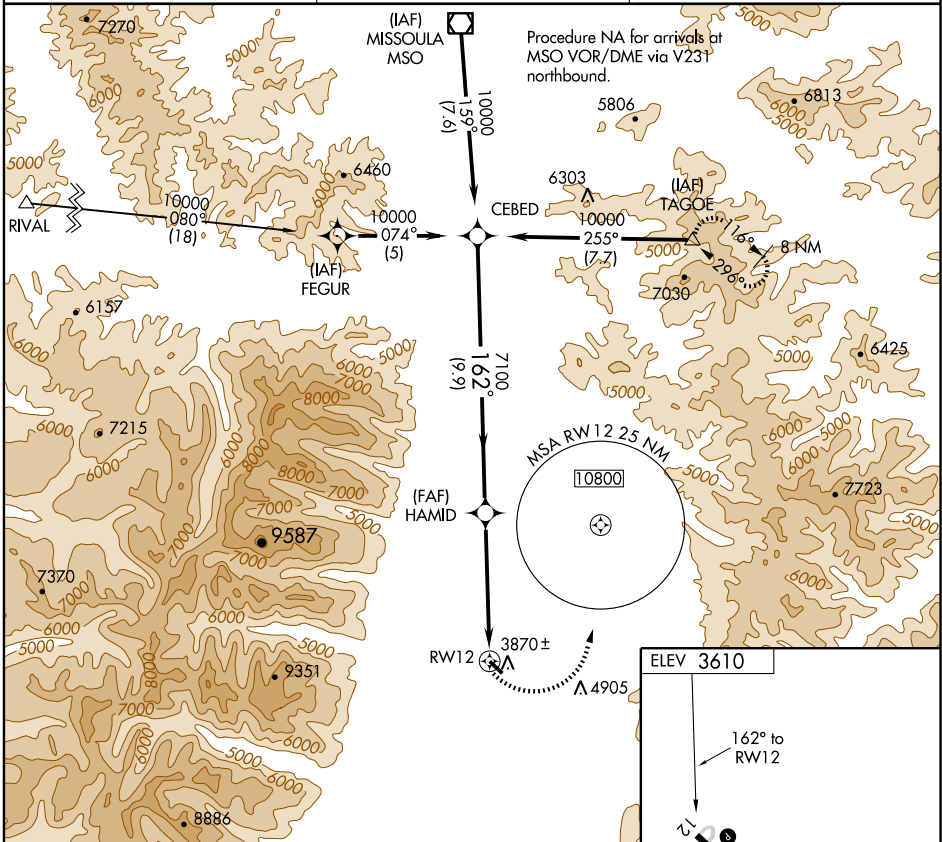
RNAV (GPS)-A

STEVENSVILLE (32S)

T DME/DME RNP-0.3 NA.
A NA Use Missoula Intl altimeter setting.
Circling NA at night to Rwy 30.

MISSED APPROACH: Climbing left turn to 13000 direct TAGOE WP and hold.

MISSOULA ASOS 126.65	SPOKANE APP CON* 124.9 298.95	UNICOM 122.8 (CTAF) 
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LOC I-LOW	APP CRS	Rwy Idg	8400
110.7	010°	TDZE	6644
		Apt Elev	6644

WEST YELLOWSTONE/YELLOWSTONE (WYS)

▼

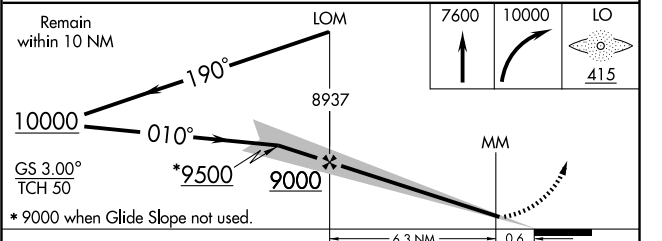
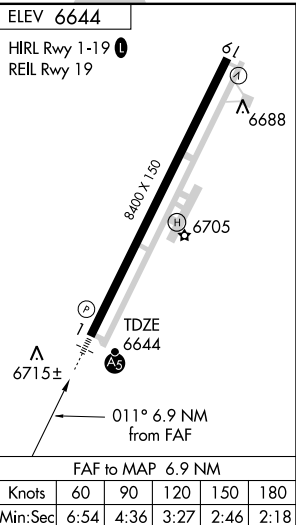
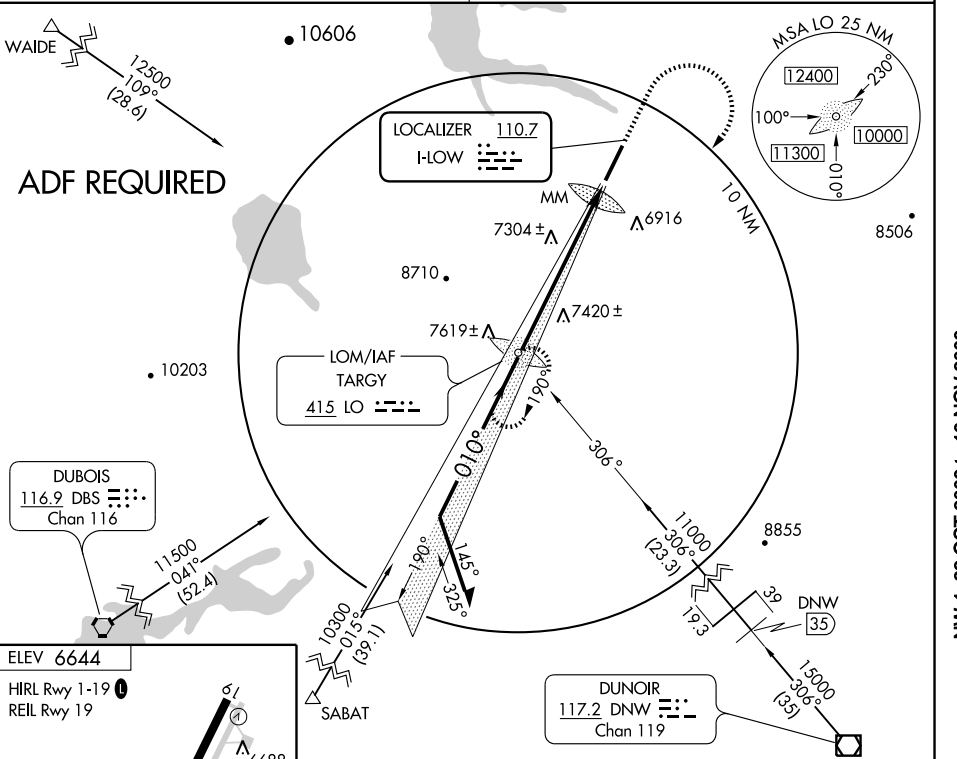
NA

If local altimeter setting not received, procedure not authorized.

MALSR

MISSED APPROACH: Climb to 7600, then climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER 132.4 338.3	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
S-ILS 1	6844-½ 200 (200-½)			
S-LOC 1	7720-¾ 1076 (1100-¾)	7720-1 1076 (1100-1)	7720-2½	1076 (1100-2½)
CIRCLING	7720-1¼ 1076 (1100-1¼)	7720-1½ 1076 (1100-1½)	7720-3	1076 (1100-3)

LOM LO	APP CRS	Rwy Idg	8400
<u>415</u>	011°	TDZE	6644
		Apt Elev	6644

NDB or GPS RWY 1

WEST YELLOWSTONE/YELLOWSTONE (WYS)

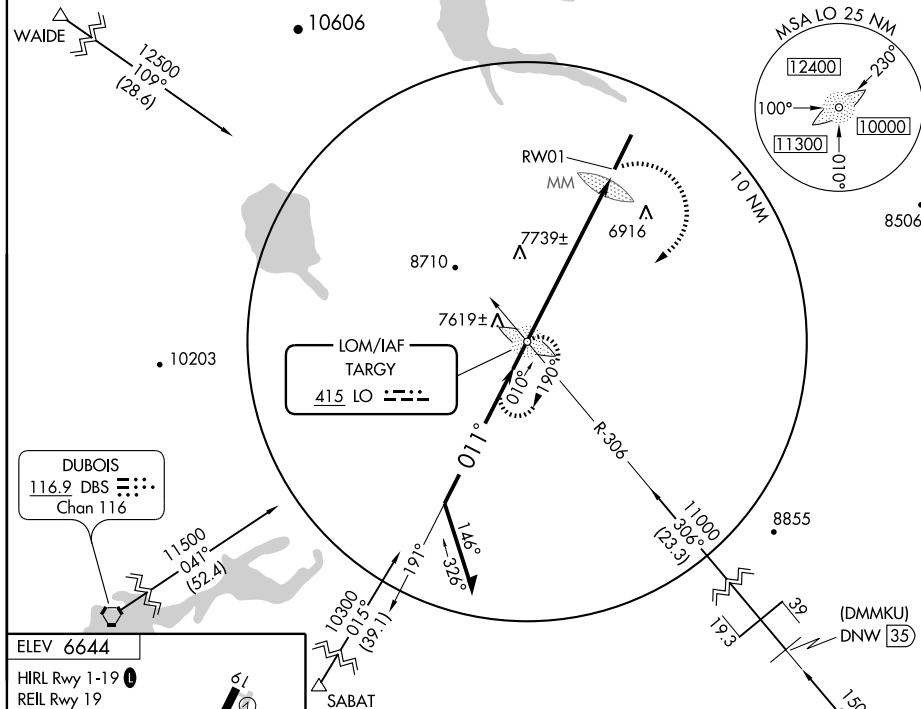
T	If local altimeter setting not received, procedure not authorized.
A NA	Categories A and B, S-1 visibility increased ½ mile for inoperative MALS R.

MALSR

MISSED APPROACH: Climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER
132.4 338.3

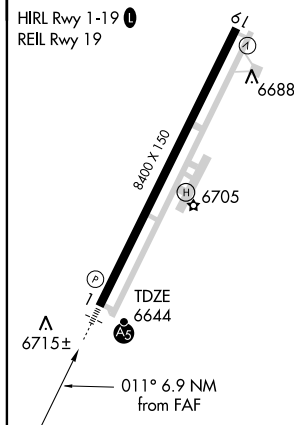
UN|COM
123.0 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 6644

HIRL Rwy 1-19 **L**
REIL Rwy 19



Remain
within 10 NM

LOM

10000

LO

10000

- 011

 3.15°

6.9

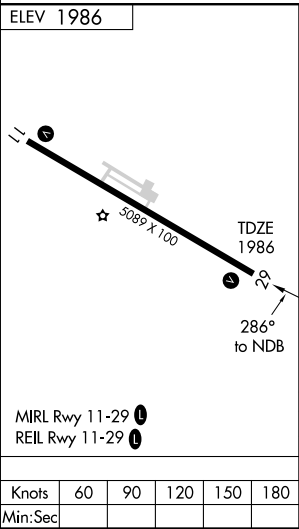
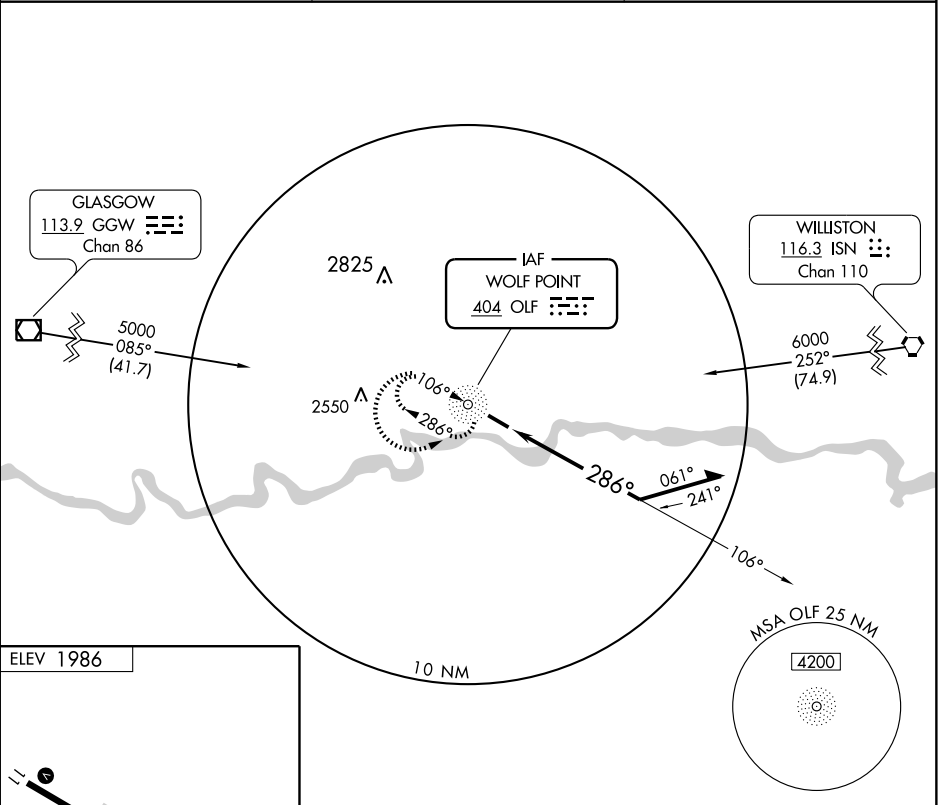
FAF to MAP 6.9 NM						S-1	1356 (1400-¾)	1356 (1400-1)	1356 (1400-2½)	1356 (1400-2¾)
Knots	60	90	120	150	180		CIRCLING	8000-1¼	8000-1½	8000-3
Min:Sec	6:54	4:36	3:27	2:46	2:18	1356 (1400-1¼)		1356 (1400-1½)		

▲ NA

If local altimeter setting not received, used Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH: Climbing left turn to 4000 direct OLF NDB continue climb-in-hold to 4000.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4000	OLF 404	NDB	106°	286°	4300	Remain within 10 NM
CATEGORY	A	B	C	D		
S-29	2820-1 834 (900-1)	2820-1¼ 834 (900-1¼)	2820-2½ 834 (900-2½)	2820-2¾ 834 (900-2¾)		
CIRCLING	2820-1 834 (900-1)	2820-1¼ 834 (900-1¼)	2820-2½ 834 (900-2½)	2820-2¾ 834 (900-2¾)		

APP CRS	Rwy Idg	5089
109°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 11

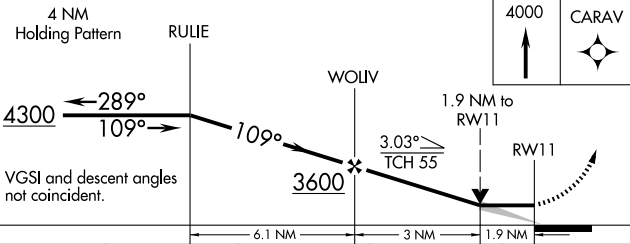
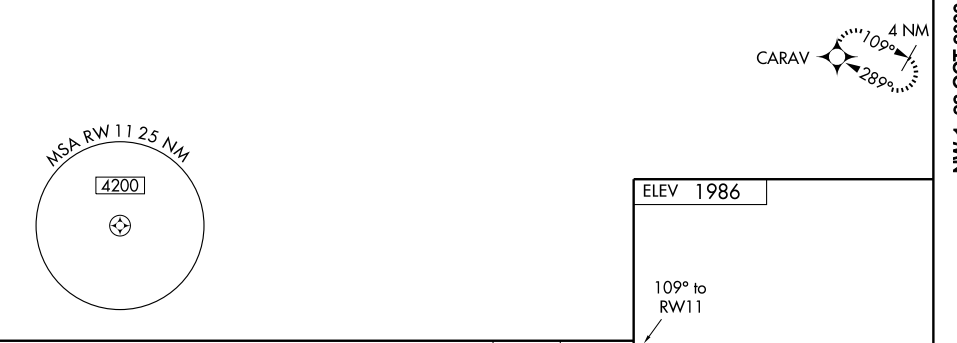
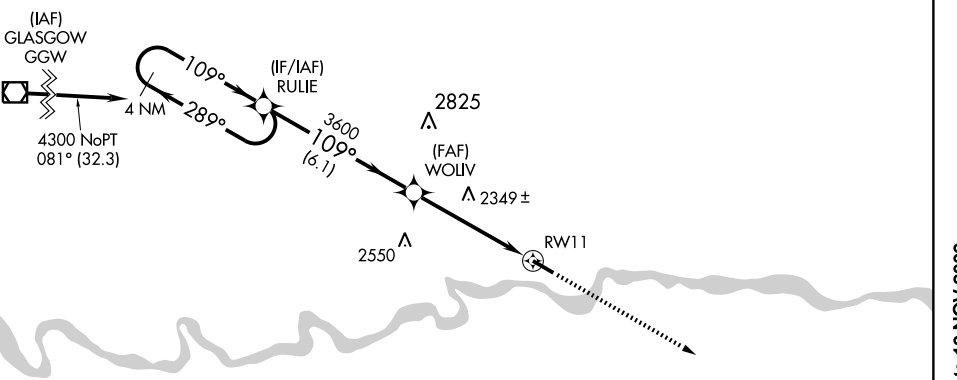
WOLF POINT/ L. M. CLAYTON (OLF)

⚠ DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 140 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.
Straight-in minimums NA at night.

MISSED APPROACH: Climb to 4000 direct CARAV and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 1
-----------------	----------------------------------	---------------------------------

Procedure NA for arrival at GGW VOR/DME via V430 westbound.



CATEGORY	A	B	C	D
RNAV MDA	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)
CIRCLING	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)

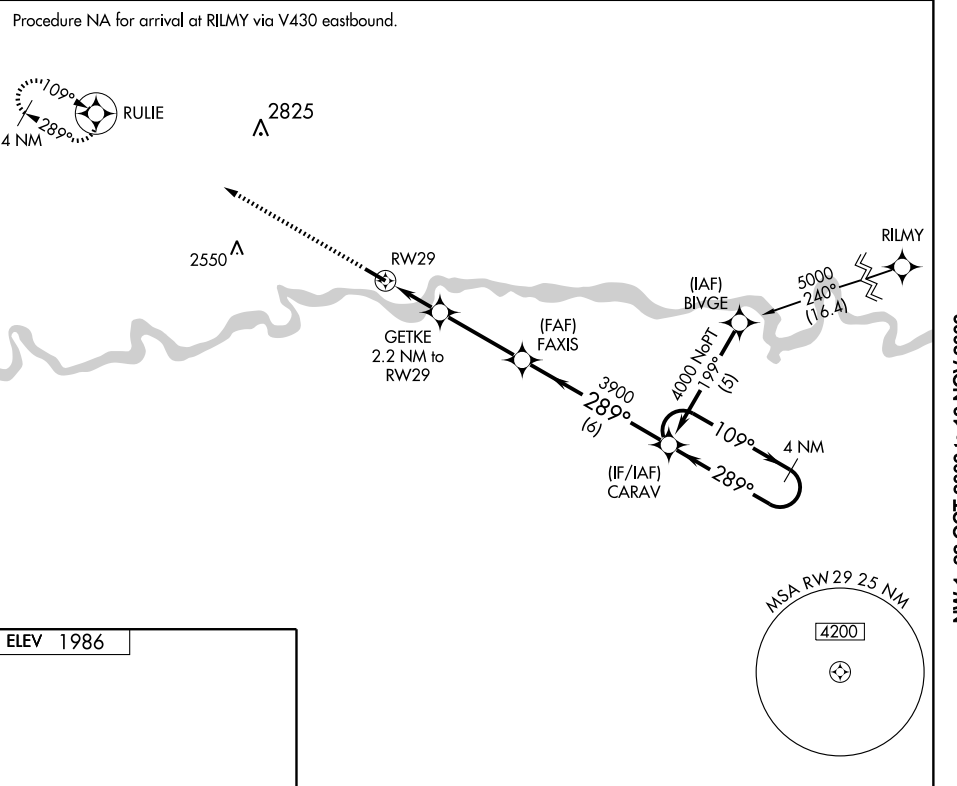
MIRA Rwy 11-29 **1**
REIL Rwy 11-29 **1**

▲

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl
altimeter setting and increase all MDAs 160 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.

MISSED APPROACH: Climb to 4300 direct RULIE
and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF)
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ELEV 1986

Diagram showing the approach to RWY 29. The runway is 5089 x 100 feet. The TDZE is 1986 feet. The approach is 2.2 NM to RWY 29, with a 289° heading. A 4 NM holding pattern is shown at 4000 MSL.

4300	RULIE	GETKE 2.2 NM to RWY29	FAXIS	CARAV	4 NM Holding Pattern
		1.2 NM to RWY29	≤ 3.13° TCH 55	289°	109°
1.2 NM	1 NM	3.4 NM	6 NM		
CATEGORY	A	B	C	D	
LNAV MDA	2380-1	394 (400-1)	2380-1 ¼ 394 (400-1 ¼)	2580-2	
CIRCLING	2540-1	554 (600-1)	2540-1 ½ 554 (600-1 ½)	594 (600-2)	

MIRL Rwy 11-29

REIL Rwy 11-29

NW-1. 22 OCT 2009 to 19 NOV 2009

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI **VOR/DME or GPS-A**
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI **NDB or GPS Rwy 34**
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL **RNAV (GPS) Rwy 26¹²**
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-3.
³Category C, 800-2½; Category D, 900-3.

AURORA, OR

AURORA STATE **LOC Rwy 17¹**
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2½.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2½.

BAKER, MT

BAKER MUNI **NDB Rwy 13¹**
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2½;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI **RNAV (GPS) Rwy 13¹²**
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2½.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL **ILS or LOC Rwy 16**
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD **VOR Rwy 31**
Category D, 800-2½.

BILLINGS, MT

BILLINGS LOGAN
INTL **NDB Rwy 10L¹**
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2½.
²Categories A,B,C,D, 800-2½.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) **LOC BC Rwy 28L¹**
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

- ¹Category E, 900-3.
²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD **VOR Rwy 12**
Category C, 800-2½; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19¹

- NA when local weather not available.
¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Category A, 1100-4; Categories B,C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
VOR/DME Rwy 3
VOR Rwy 21

NA when local weather not available.

Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¾**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR or GPS Rwy 7¹**
VOR or GPS Rwy 25²

¹Category D, 800-2¾.

²Categories A,B, 1000-2; Categories C,D,
1000-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷
 VOR-A⁸
 VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

LEWISTON, ID

LEWISTON-NEZ PERCE

COUNTY **ILS Rwy 26¹²**

RNAV (GPS) Rwy 8³

RNAV (GPS) Rwy 12³

RNAV (GPS) Rwy 26³

VOR Rwy 8⁴

VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI **RNAV (GPS) Rwy 7**

VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**

VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D, 2200-3.

MCMINNVILLE, OR

MCMINNVILLE MUNI **ILS or LOC Rwy 22**

RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-

MEDFORD **ILS or LOC/DME Rwy 14¹²**

LOC/DME BC-B²³

RNAV (GPS)-D³

RNAV (GPS) Rwy 14⁴

VOR-A⁵

VOR/DME-C³

VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**

RNAV (GPS) Y Rwy 11²³

RNAV (RNP) Z Rwy 11², 800-2½

VOR/DME or GPS-A, 2000-3

VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**

NDB Rwy 32R²

RNAV (GPS) Rwy 4¹

RNAV (GPS) Rwy 14L¹

RNAV (GPS) Rwy 22¹

VOR Rwy 4²

VOR -1 Rwy 14L²

VOR -3 Rwy 14L²

VOR Rwy 22²

VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**

NA except for operators with approved weather reporting service.

Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON

RGNL **ILS or LOC Rwy 4¹**

NDB or GPS Rwy 4²

VOR or GPS-A³

VOR/DME or GPS-B⁴

VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½, Category D, 1000-3. LOC, Category C, 900-2½, Category D, 1000-3.

²Category C, 900-2½; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**

NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**

RNAV (GPS) Rwy 17²

RNAV (GPS) Rwy 35²

VOR-A²³

VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,

700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A
 NA when local weather not available.
 Category C, 800-2¼; Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME **ALTERNATE MINIMUMS**
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁹
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²

¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD NDB or GPS-A¹
 VOR or GPS Rwy 22,1000-3²

¹Category D, 1000-3.

²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16¹
RNAV (GPS) Z Rwy 16²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

²Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON

COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER

COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

McNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL

AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY

INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN

COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.

Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2½.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

⁴Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD

RADAR - 124.55 263.075 ▽ ▲ NA

	RWY	GS/TCH/RP	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (09155 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4 ▽ ▲ NA

	RWY	GS/TCH/RP	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/947	ABCD	499/40	200	(200-¾)
	33 ²	3.0°/39/730	ABCD	500-¾	200	(200-¾)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:


Rwy 15: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 700, then climbing left turn to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS

KLAMATH FALLS (KLMT), (KINGSLEY FIELD), OR (09071 USAF)

RADAR - (E) ¹Call Kingsley GCA 123.675 233.7 119.175x 317.7x 225.4x 256.7x  ELEV 4095

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ²	32 ³ 14 ⁴	3.0°/48/909 3.0°/47/905	ABCDE ABCDE	4345/24 4391-¾	250 300	(300-½) (300-¾)
ASR	32 ⁵		AB C D E	4720/24 4720/60 4720-1½ 4720-1¾	625 625 625 625	(700-½) (700-1¼) (700-1½) (700-1¾)
	14 ⁶		AB C D E	4800-¾ 4800-1¾ 4800-2 4800-2½	709 709 709 709	(800-¾) (800-1¾) (800-2) (800-2½)
CIR ⁷	All Rwy		A B C D E	4820-1 5020-1¼ 5020-2¾ 5020-3 5620-3	725 925 925 925 1525	(800-1) (1000-1¼) (1000-2¾) (1000-3) (1600-3)



¹MILITARY USE ONLY. Opr 1600-0000Z++ Mon-Fri. ²No-NOTAM preventive maint sked; 1600-1700Z++ Thu. ³When ALS inop, increase CAT AB RVR to 40, vis to ¾ mile, CAT CDE RVR to 50, vis to 1 mile. ⁴When ALS inop, increase vis to 1 mile. ⁵When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to 1¾ miles, CAT D vis to 2 miles, CAT E vis to 2½ miles. ⁶When ALS inop, increase CAT AB vis to 1 mile, CAT C to 2 miles, CAT D to 2½ miles, CAT E to 2½ miles. ⁷CAT E circling NA from Rwy 14 clockwise to Rwy 32. Circling to Rwy 7/25 Not Authorized at night all CATs.

OAK HARBOR (OKH), WA

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193

A J EISENBERG

RADAR - 118.2 285.65   NA


	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x 

				DM/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
	RWY	GS/TCH/RPI	CAT			
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 16**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA - obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD (CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 34**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR

ASTORIA RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway,

163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT

BAKER MUNI

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR

BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA

BELLINGHAM INTL

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)

AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left
Rwys 10L, 10R, turn right. Climb on BOI R-214 within
20 NM to cross BOI VORTAC at or above MEA/MCA
for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min.
climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. All aircraft proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: All runways, cross departure
end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: All runways, climb direct
BURLEY (BYI) VOR/DME. Continue climb on R-305
within 10 miles to cross BYI VOR/DME: R-024 CW
R-054 at or above 5500; R-055 CW R-240 at or above
8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway,
513' left of centerline, 110' AGL/4195' MSL. Stack 2205'
from departure end of runway, 857' right of centerline,
79' AGL/4236' MSL. Elevator 4092' from departure end
of runway, 297' right of centerline, 133' AGL/4283' MSL.
Rwy 20, antenna 523' from departure end of runway, 338'
right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree
630' from departure end of runway, 521' right of
centerline, 41' AGL/4215' MSL. Grain elevator 3106'
from departure end of runway, 163' left of centerline,
137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a
min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or
std. with a min. climb of 245' per NM to 2300. **Rwy 22**,
1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right
heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB
to cross BVS at or above 4500. Aircraft departing on
BVS R-145 CW R-330 climb on course. All others
continue climbing in BVS holding pattern (NW, right
turns 113° inbound) to cross BVS at or above 6800
before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway,
426' left of centerline, 100' AGL/212' MSL. Light pole
1489' from departure end of runway, 136' left of
centerline 35' AGL/137' MSL. Bush 126' from departure
end of runway, 430' right of centerline, 20' AGL/101'
MSL. Building 2925' from departure end of runway, 130'
left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CWR-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****ORIG 09295 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

* Or standard with minimum climb of 430/NM to 500.

** Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3, 7**, turn left;

Rwys 21, 25, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.



HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL

DEPARTURE PROCEDURE: **All aircraft** departing
IDA

R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.

NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL.

Rwy 17, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

**JEROME, ID**

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; all aircraft climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. All aircraft continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. All aircraft climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



LAUREL, MT**LAUREL MUNI**TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.DEPARTURE PROCEDURE: **Rwy 22**, turn left.**All aircraft** climb direct BIL VORTAC.**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left

direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.**Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.NOTES: **Rwy 8**, trees 1.42 NM from departure end of

runway, 2386' left of centerline, 100' AGL/2159' MSL.

Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.**Rwy 15**, use EYSE RNAV DEPARTURE.**LIVINGSTON, MT****MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.**MADRAS, OR****MADRAS MUNI (S33)****ORIG-A 09043 (FAA)**TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2 ½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...

... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID**MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.**MC CHORD AFB (KTCM)****TACOMA, WA 09127**DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windssock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.
All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA. **Rwy** closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL.

Rwy 29, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 6 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. w/ min. climb of 270' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 7500 via heading 240 and PIH R-269 to SICOY/PIH 10 DME. **Rwys 17, 21**, climbing right turn to 7500 via PIH R-269 to SICOY/PIH 10 DME. **Rwy 35**, climbing left turn to 7500 via heading 230 and PIH R-269 to SICOY/PIH 10 DME.

DME REQUIRED.

NOTE: **Rwy 3**, trees beginning 3132' from departure end of runway, 562' left of centerline, up to 100' AGL/4549' MSL. Rod on obstruction light 978' from departure end of runway, 759' right of centerline, 37' AGL/4486' MSL.

Rwy 17, transmission tower 1.19 NM from departure end of runway, 2395' left of centerline, 124' AGL/4693' MSL. Trees beginning 1.63 NM from departure end of runway, 2642' left of centerline, up to 100' AGL/4759' MSL. Fence 112' from departure end of runway, 416' right of centerline, 4' AGL/ 4453' MSL. Bush 30' from departure end of runway, 261' right of centerline, 6' AGL/4445' MSL. Fence 208' from departure end of runway, 421' right of centerline, 10' AGL/4449' MSL. **Rwy 21**, antenna 543' from departure end of runway, 309' left of centerline, 17' AGL/4466' MSL. Obstruction light 543' from departure end of runway, 286' left of centerline, 13' AGL/ 4462' MSL. **Rwy 35**, electrical equipment 197' from departure end of runway, 248' left of centerline, 10' AGL/ 4454' MSL.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179' MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND, OR (CON'T)

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.



PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 3,300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28, NA**.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKWR-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 6 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 400' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, Climb heading 154° to 700, then climbing right turn direct SEA VORTAC, then..., or for climb in visual conditions: cross Renton Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, then...,

Rwy 34, Climb heading 334° to 700, then climbing left turn direct SEA VORTAC then..., ...Climb in SEA VORTAC holding pattern (E, LT, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, Trees, towers, lights and blast shield beginning 286' from departure end of runway, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from departure end of runway, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from departure end of runway, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from departure end of runway, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMD T 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions.

Rwy 23, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7,20,25,34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25,30**, CAT A, B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C, D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25,30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to ZEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

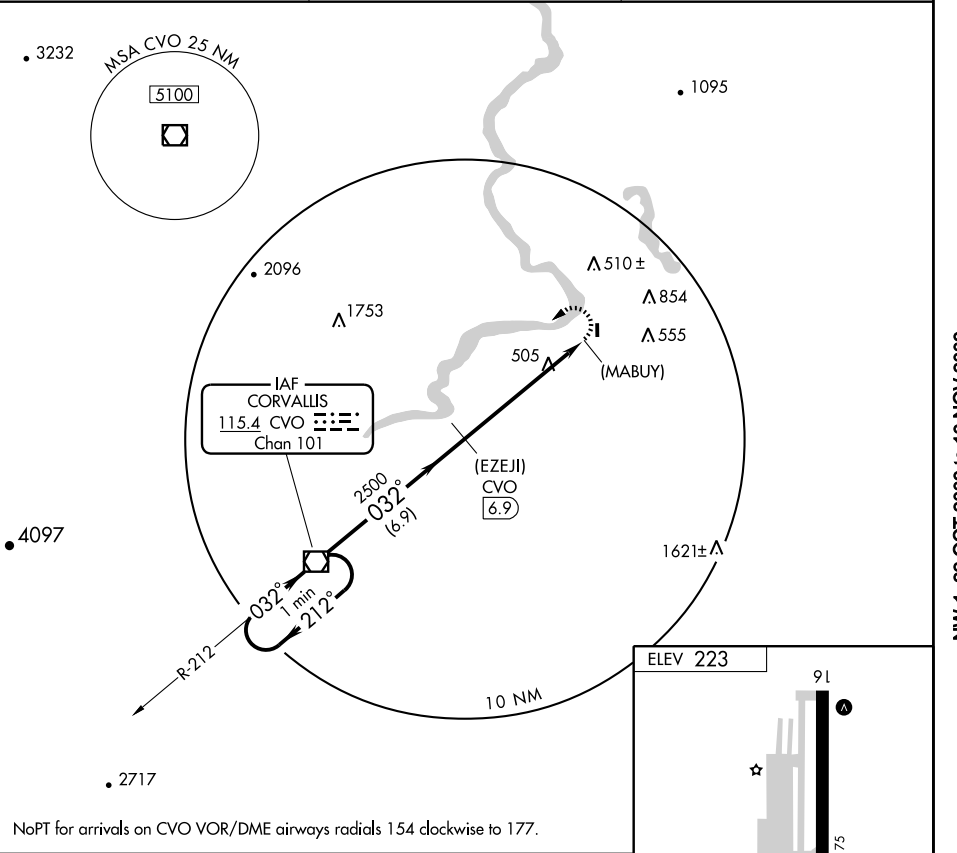
TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

Use Corvallis altimeter setting.

MISSED APPROACH: Climbing left turn to 3500 via CVO R-032 to CVO VOR/DME and hold.

CORVALLIS AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 122.8 (CTAF) 0
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NoPT for arrivals on CVO VOR/DME airways radials 154 clockwise to 177.

One Minute Holding Pattern	VOR/DME	3500	CVO
3500 ← 212°	032° →	(EZEJI) CVO 6.9	(MABUY) CVO 12.3
	032°	2500	
	6.9 NM	5.4 NM	

3500

CVO R-032

115.4

032° 5.4 NM from FAF

REIL Rwy 34

MIRL Rwy 16-34

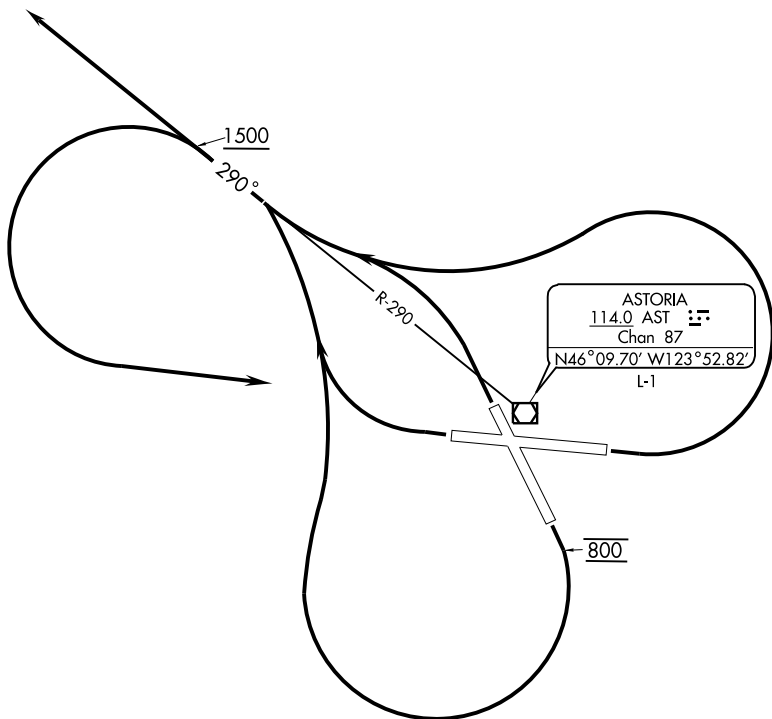
91

3003 x 75

34

CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	840-1	617 (700-1)	NA		Min:Sec					

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.3



NOTE: TAKE-OFF MINIMUMS: Rwy 8, 800-3 or standard with minimum climb of 320' per NM to 900'. Rwy 13, 700-2 or standard with minimum climb of 350' per NM to 800'. Rwy 26,31, Standard.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8,31: Turn left. Thence....

TAKE-OFF RUNWAY 26: Turn right. Thence....

TAKE-OFF RUNWAY 13: Climb runway heading to 800 then climbing right turn. Thence....

.... Aircraft departing northwest bound climb via AST R-290 on course. All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

LOC I-AST 109.5	APP CRS 257°	Rwy Idg TDZE Apt Elev N/A 9 11
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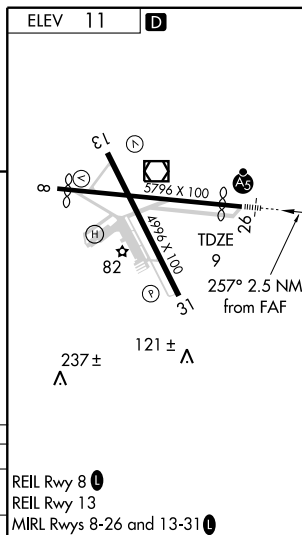
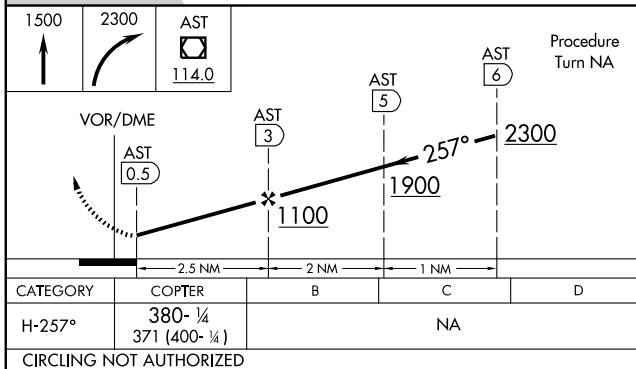
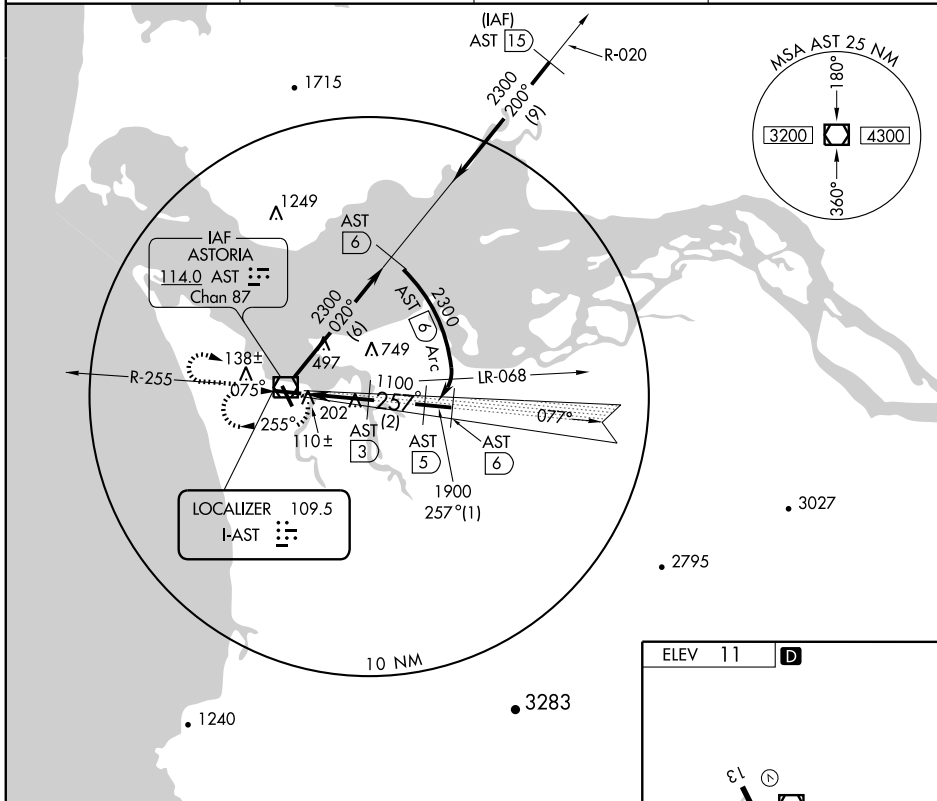
COPTER LOC/DME 257°

ASTORIA RGNL (AST)

V DME from AST VOR/DME. Simultaneous reception of I-AST and AST VOR/DME required.
NA Increase visibility to ½ mile for inoperative MALSRL.

MISSED APPROACH: Climb to 1500 then climbing right turn to 2300 direct AST VOR/DME and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF)
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VOR/DME AST 114.0 Chan 87	APP CRS 066°	Rwy Idg TDZE Apt Elev	N/A N/A 11
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COPTER VOR/DME or GPS 066°
ASTORIA RGNL (AST)

T
A NA

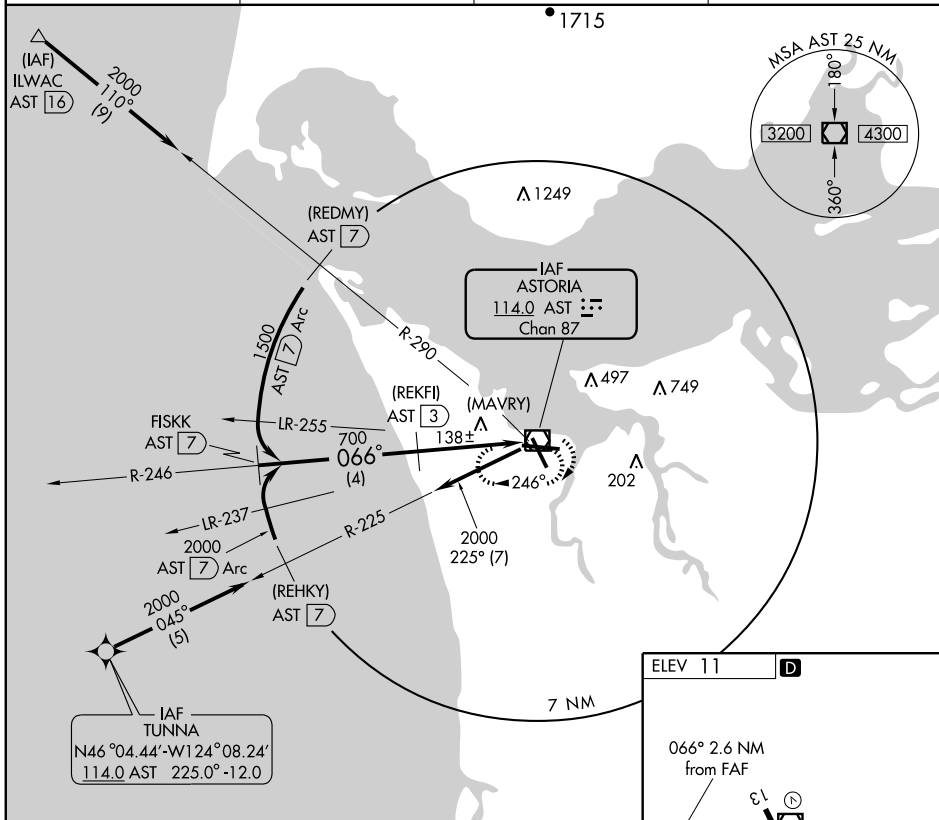
MISSED APPROACH: Climbing right turn to 2000 in AST VOR/DME holding pattern.

ASOS
135.375

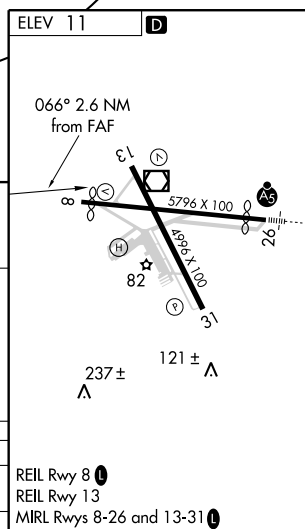
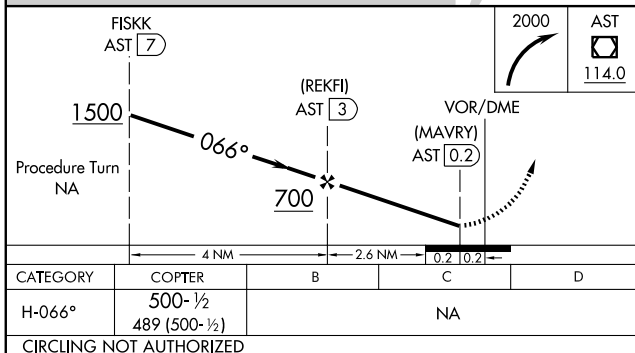
SEATTLE CENTER
124.2 317.6

MC MINNVILLE RADIO
122.3

UNICOM
122.8 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

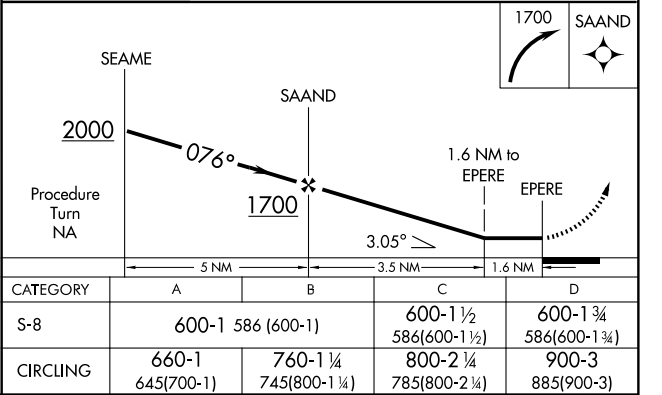
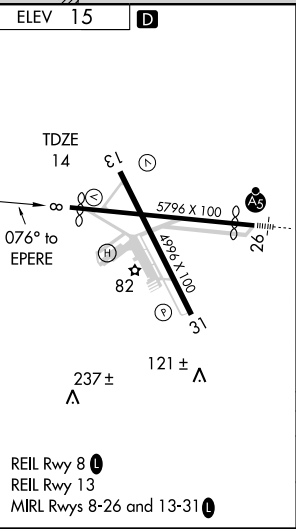
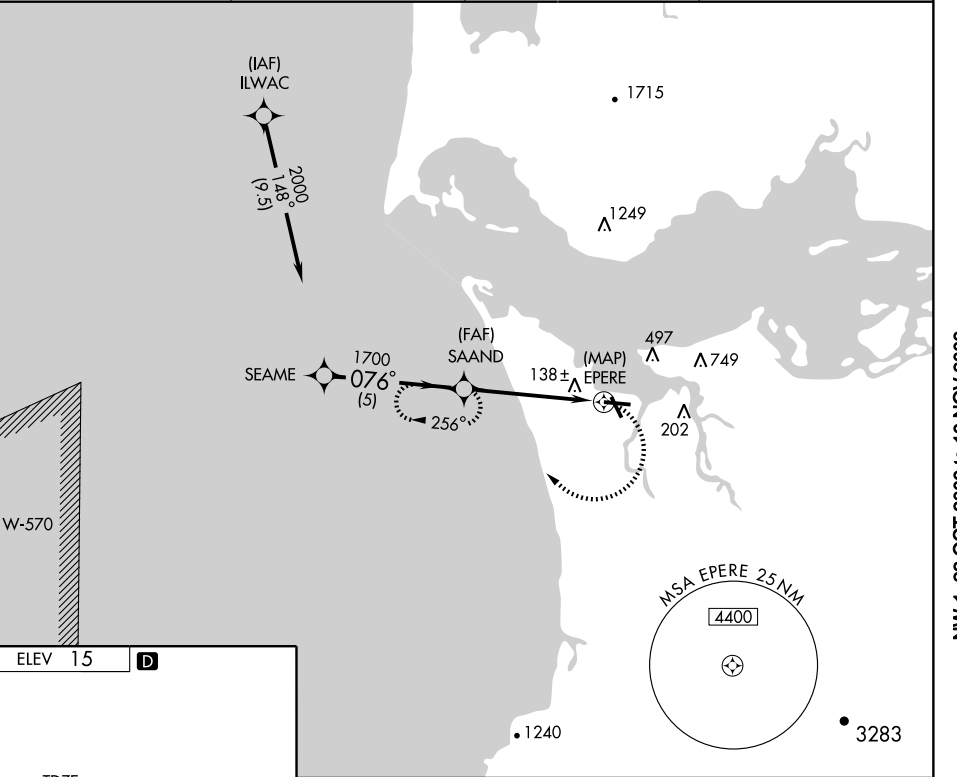


▼

▲ NA

MISSED APPROACH: Climbing right turn to 1700 direct SAAND WP and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
S-8	600-1 586 (600-1)	600-1 ½ 586 (600-1 ½)	600-1 ¾ 586 (600-1 ¾)	600-1 ¾ 586 (600-1 ¾)
CIRCLING	660-1 645 (700-1)	760-1 ¼ 745 (800-1 ¼)	800-2 ¼ 785 (800-2 ¼)	900-3 885 (900-3)

LOC I-AST 109.5	APP CRS 257°	Rwy Idg TDZE Apt Elev	4782 9 11
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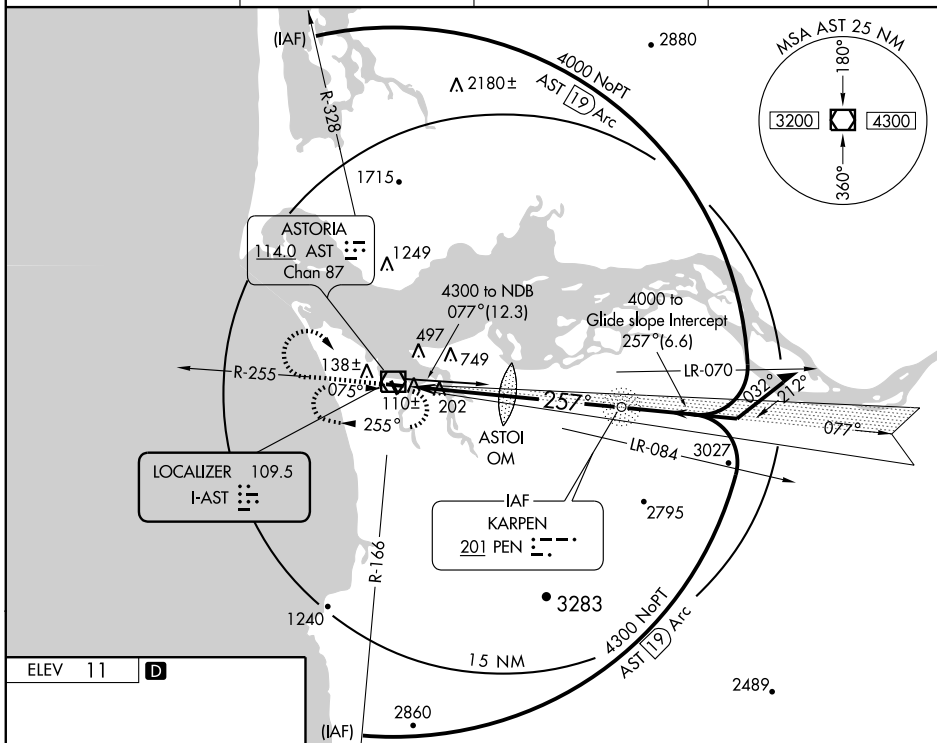
ILS RWY 26
ASTORIA RGNL (AST)

ANA Circling requires descent on GS to MDA.



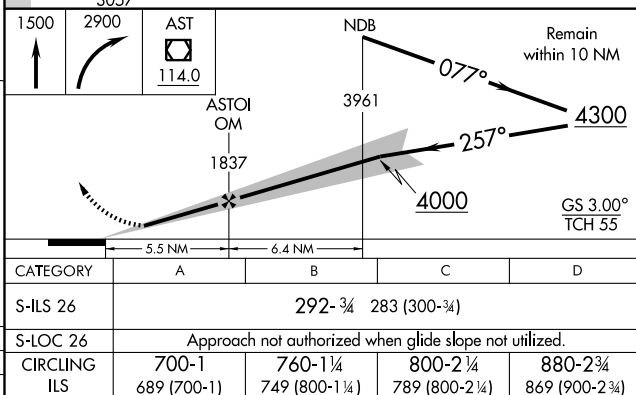
MISSED APPROACH: Climb to 1500 then climbing right turn to 2900 direct AST VOR/DME and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) ①
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NW-1. 22 OCT 2009 to 19 NOV 2009

ADF or DME REQUIRED



WAAS CH 97711 W26A	APP CRS 257°	Rwy Idg TDZE Apt Elev	4782 14 15
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RNAV (GPS) RWY 26

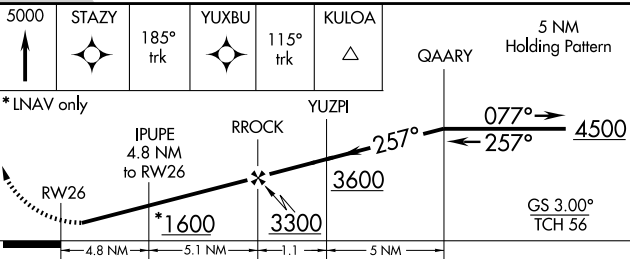
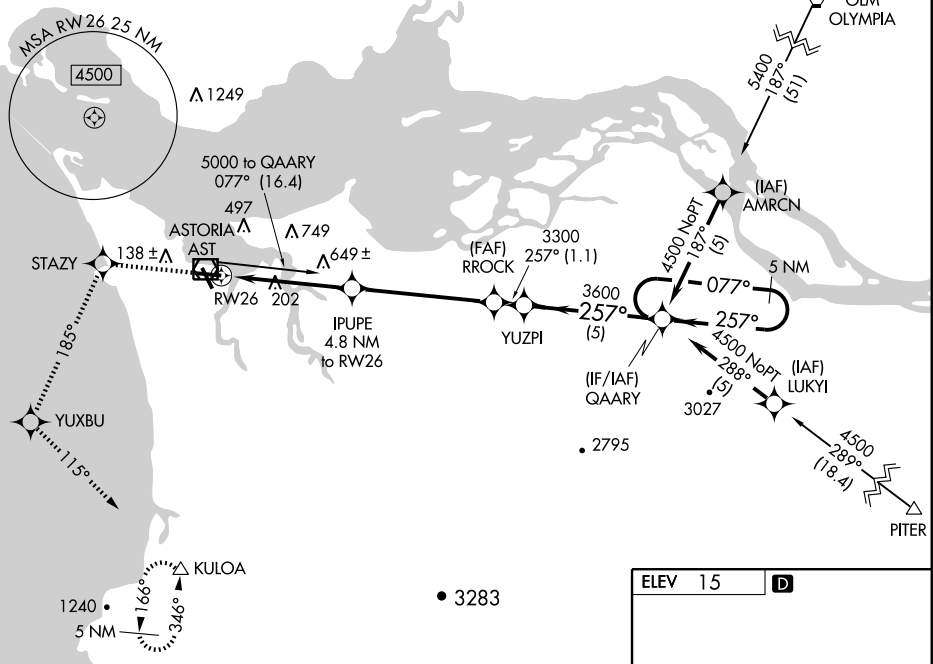
ASTORIA RGNL (AST)

⚠ Inoperative table does not apply. DME/DME RNP -0.3 NA.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, use Kelso altimeter setting and increase all DA 95 feet and all MDA 100 feet; increase LPV all Cats, LNAV Cats C and D and circling Cats C and D visibility ¼ mile.

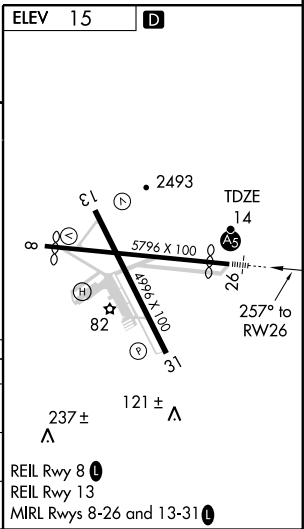
MALSR
A5
MISSED APPROACH: Climb to 5000 direct STAZY and via track 185° to YUXBU and via track 115° to KULOA and hold.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrivals at OLM VORTAC via V287 northbound.



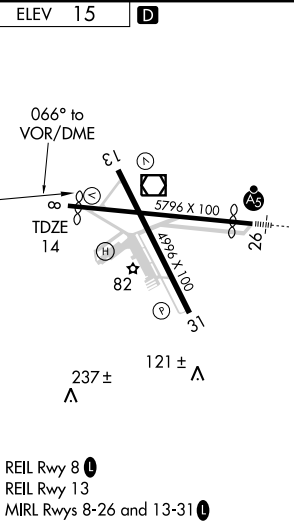
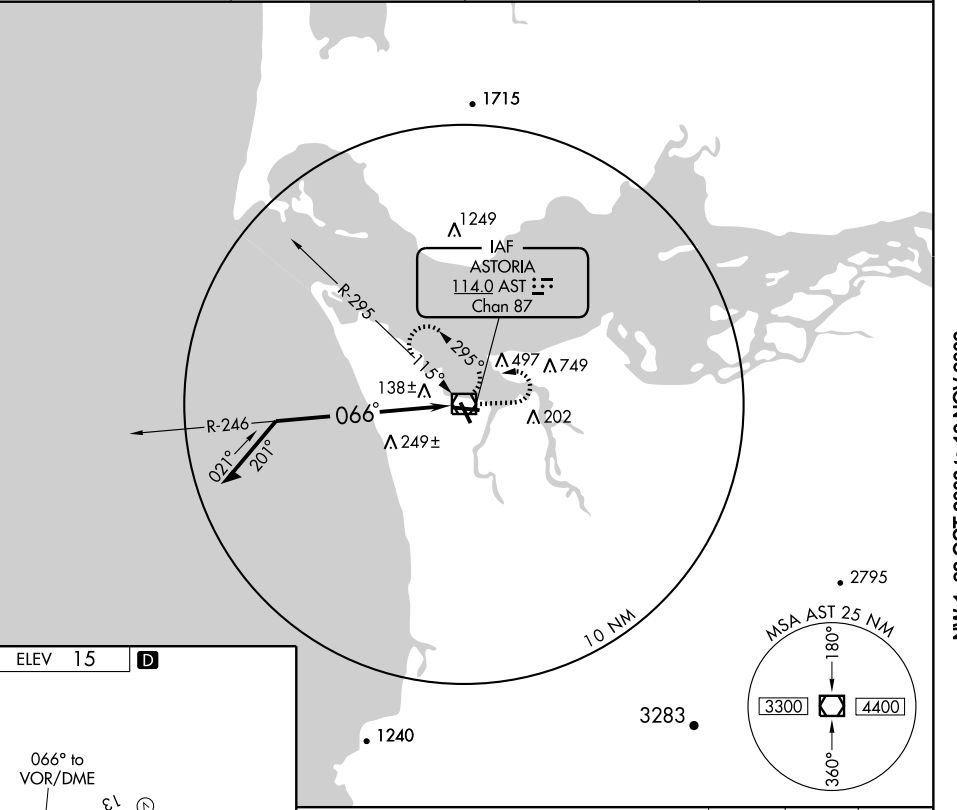
CATEGORY	A	B	C	D
LPV DA	300-1		286 (300-1)	
LNAV MDA	900-1¼	886 (900-1¼)	900-2¾ 886 (900-2¾)	900-3 886 (900-3)
CIRCLING	900-1¼	885 (900-1¼)	900-2¾ 885 (900-2¾)	900-3 885 (900-3)



▼
▲

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 AST VOR/DME holding pattern.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 0
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Remain within 10 NM

VOR/DME

1000

3000

AST
114.0

246°

066°

1800

CATEGORY	A	B	C	D
S-8	660-1 646 (700-1)	660-1 646 (700-1 3/4)	660-1 646 (700-1 3/4)	660-2 646 (700-2)
CIRCLING	660-1 645 (700-1)	760-1 745 (800-1 3/4)	800-2 785 (800-2 1/4)	900-3 885 (900-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

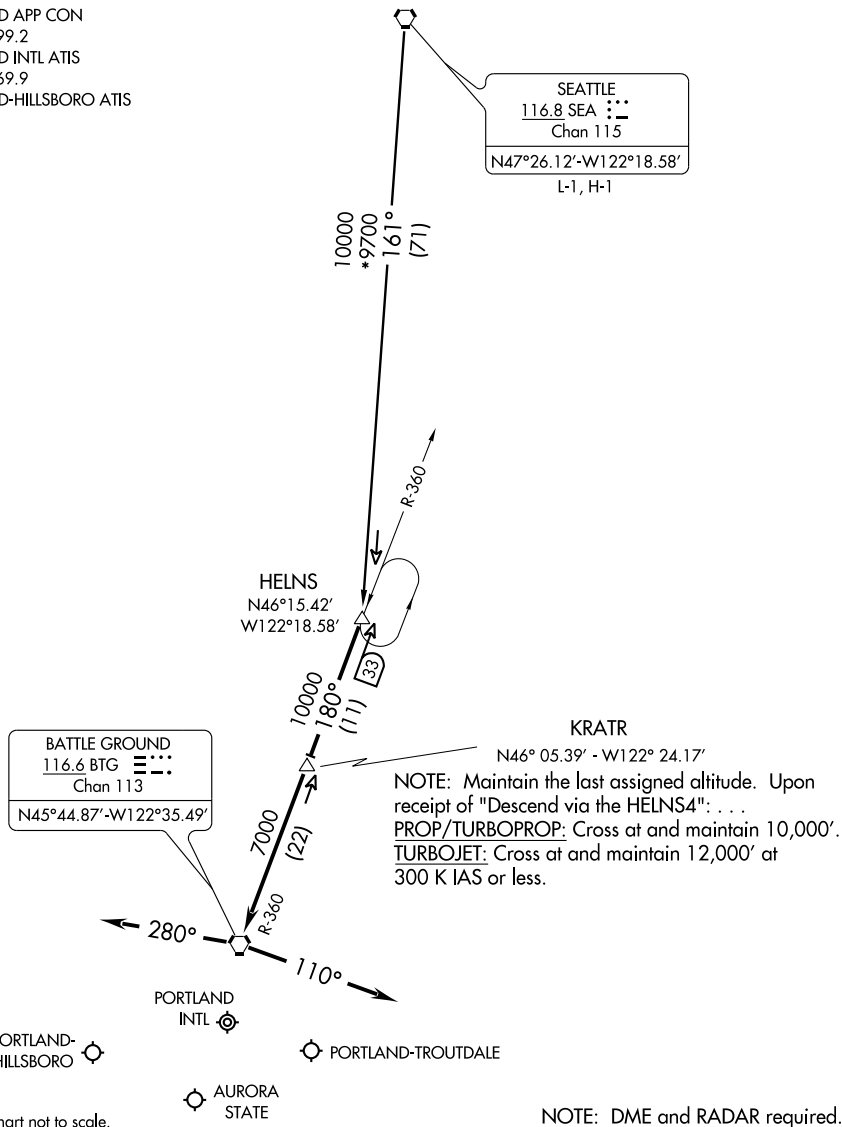
124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65



NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

▼

▲

Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 via heading 050° and BTG R-160 to GLARA Int/ BTG 28.2 DME and hold. Continue climb-in-hold to 4000.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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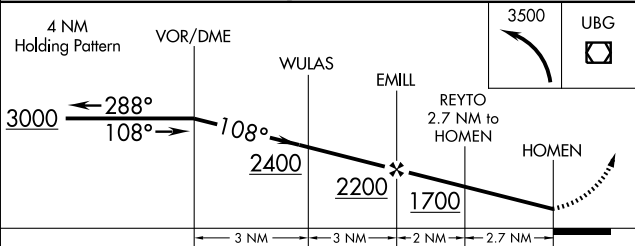
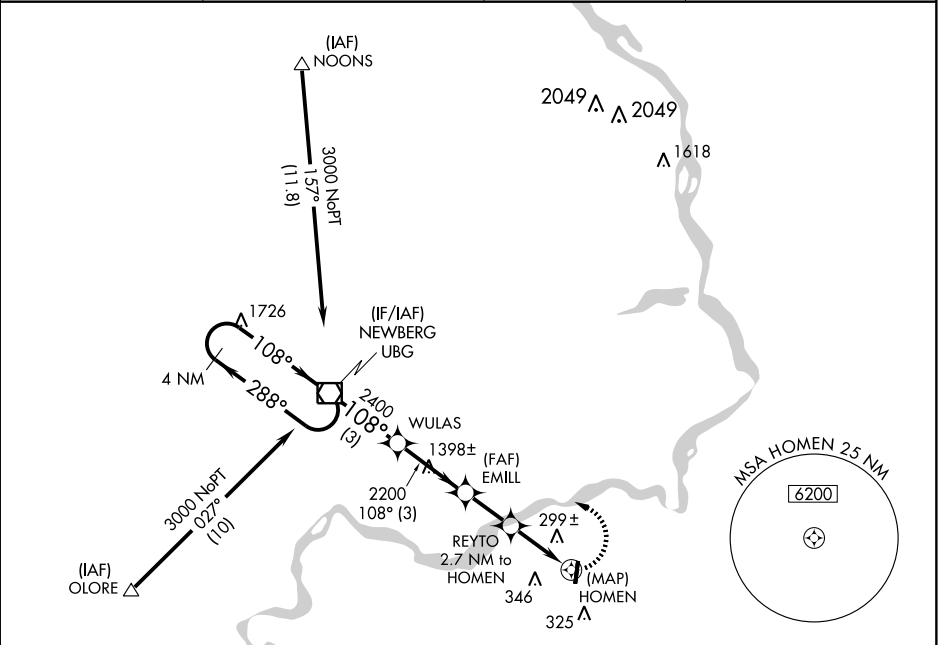
<div><div>900</div><div>4000</div><div>BTG R-160 116.6</div><div>GLARA</div><div>LUTZZ INT I-UAO 8</div><div>349°</div><div>3100</div><div>169°</div><div>2600</div><div>3.19° TCH 40</div><div>900</div><div>2.1 NM</div><div>4.9 NM</div><div>Remain within 10 NM</div><div>VGSi and descent angles not coincident.</div></div>					
CATEGORY	A		B	C	D
S-17	900-1 700 (700-1)		900-2 700 (700-2)	900-2 700 (700-2 1/4)	
CIRCLING	900-1 700 (700-1)		900-2 700 (700-2)	900-2 700 (700-2 1/4)	
FIDOV FIX MINIMUMS					
S-17	580-1 380 (400-1)		580-1 380 (400-1 1/4)		
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1 1/2 460 (500-1 1/2)	760-2 560 (600-2)	

NW-1: 22 OCT 2009 to 19 NOV 2009

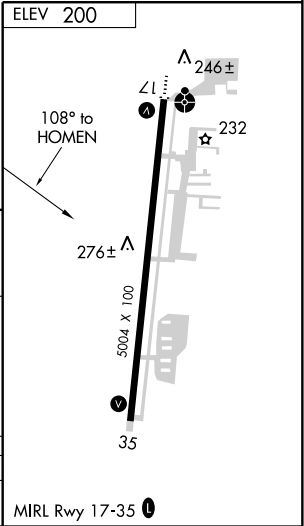
APP CRS	Rwy Idg	N/A
108°	TDZE	N/A
	Apt Elev	200

DME/DME RNP- 0.3 NA.		MISSED APPROACH: Climbing left turn to 3500 direct UBG VOR/DME and hold.	
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ASOS 118.525	PORTLAND APP CON 126.0 284.6	CINC DEL 119.95	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1½ 460 (500-1½)	760-2 560 (600-2)



WAAS CH 70308 W17A	APP CRS 169°	Rwy Idg 5004 TDZE 200 Apt Elev 200
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RNAV (GPS) RWY 17
AURORA STATE (UAO)

MISSED APPROACH:
Climb to 3500 direct
DUBMY and hold,
continue climb-in-hold
to 3500.

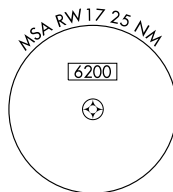
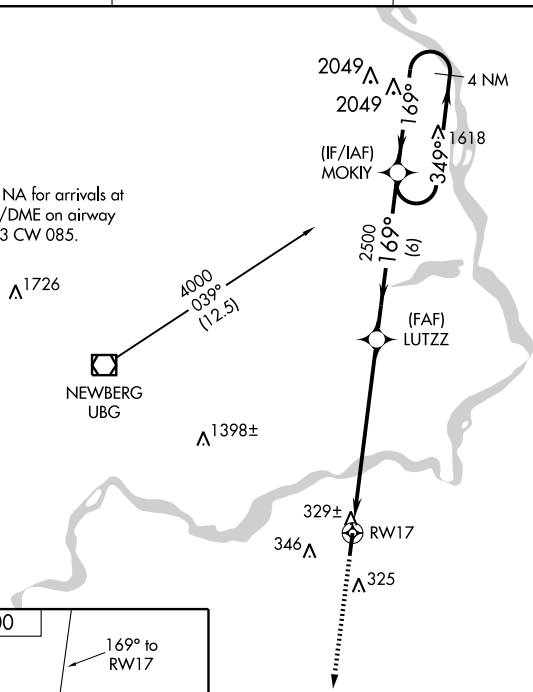
ODALS



DME/DME RNP-0.3 NA. When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV, LNAV/VNAV visibilities all Cats. $\frac{1}{4}$ mile, increase LNAV visibility Cats. A/C/D $\frac{1}{4}$ mile, increase Circling visibilities Cats. A/C/D $\frac{1}{4}$ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Inoperative table does not apply. Visibility reduction by helicopters NA.

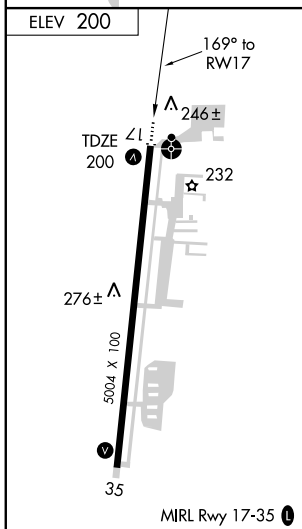
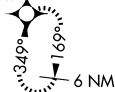
ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals at
UBG VOR/DME on airway
radials 013 CW 085.



MISSED APCH FIX

DUBMY



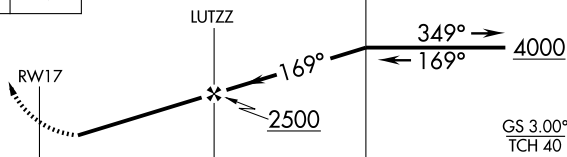
3500



VGSI and RNAV glidepath
not coincident.

MOKIY

4 NM
Holding Pattern



		7 NM	6 NM	
CATEGORY	A	B	C	D
LPV DA	550-1¼ 350 (400-1¼)			
RNAV/ VNAV DA	580-1¼ 380 (400-1¼)			
RNAV MDA	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)
CIRCLING	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)

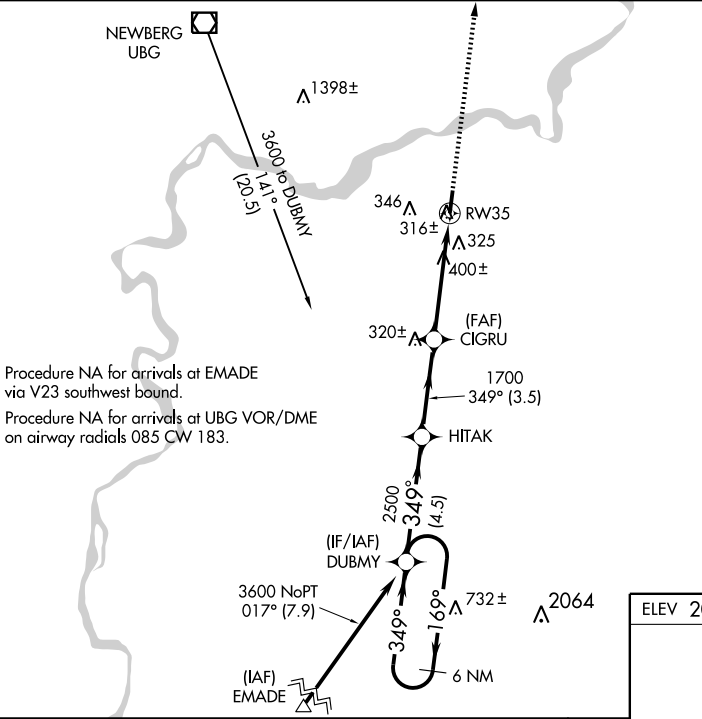
WAAS CH 77508 W35A	APP CRS 349°	Rwy Idg 5004 TDZE 199 Apt Elev 200
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RNAV (GPS) RWY 35
AURORA STATE (UO)

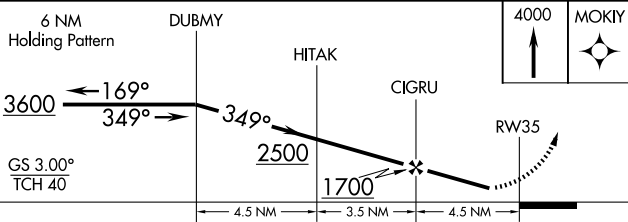
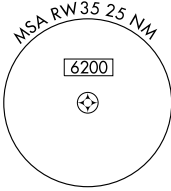
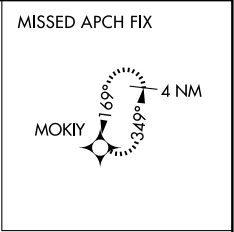
⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and MDA 60 feet; increase LPV, LNAV/VNAV visibilities ¼ mile all Cats, increase LNAV Cat D visibility to 1½. Visibility reduction by helicopters NA. Baro-VNAV NA when using Mc Minnville Muni altimeter setting.

MISSED APPROACH: Climb to 4000 direct MOKIY and hold, continue climb-in-hold to 4000.

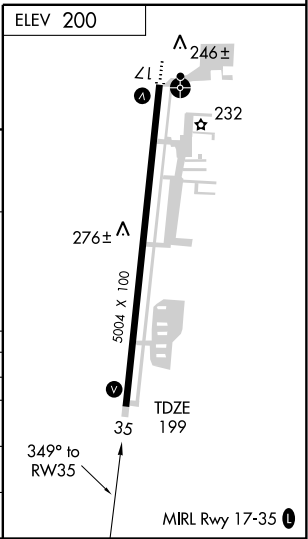
ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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Procedure NA for arrivals at EMAD via V23 southwest bound.
Procedure NA for arrivals at UBG VOR/DME on airway radials 085 CW 183.

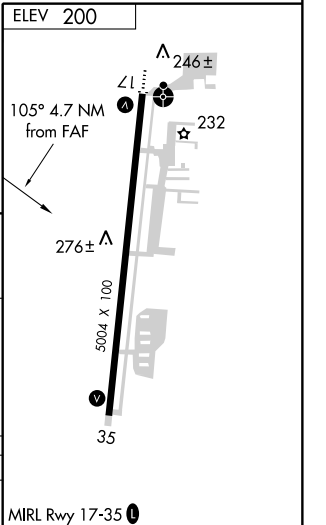
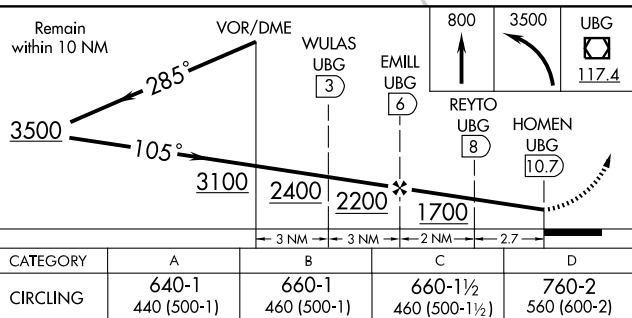
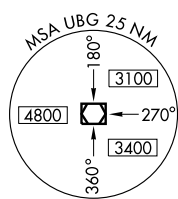
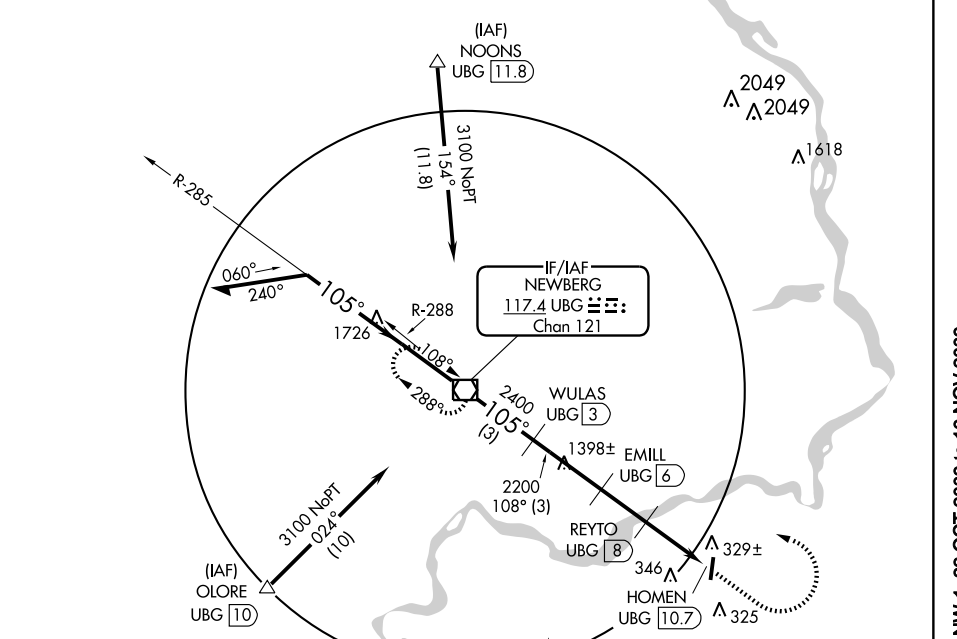


CATEGORY	A	B	C	D
LPV DA	500-1	301 (300-1)		
LNAV/VNAV DA	604-1½	405 (500-1½)		
LNAV MDA	700-1 501 (500-1)	700-1½ 501 (500-1½)		
CIRCLING	700-1 500 (500-1)	700-1½ 500 (500-1½)	760-2 560 (600-2)	



MISSED APPROACH: Climb to 800 then climbing left turn to 3500 direct UBG VOR/DME and hold.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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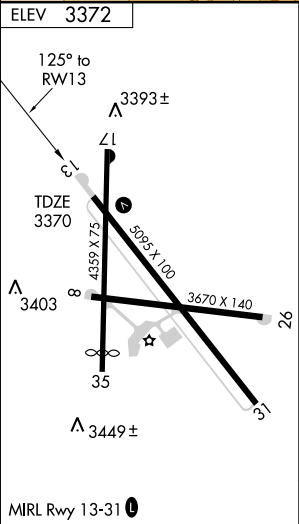
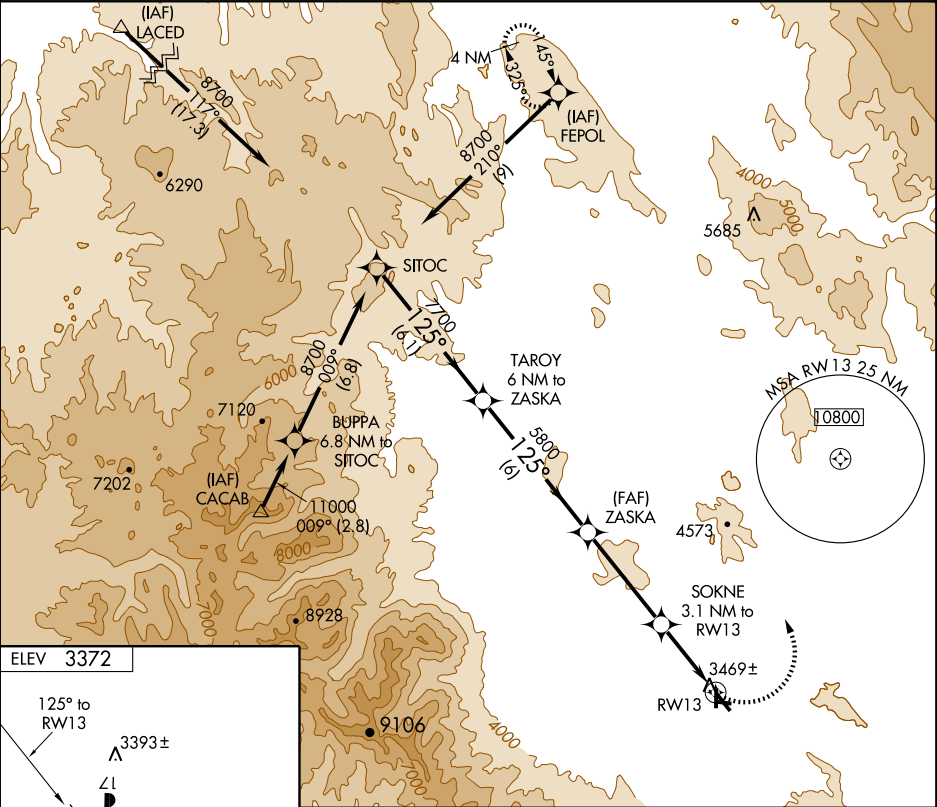
NW-1, 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	5095
125°	TDZE	3370
	Apt Elev	3372

RNAV (GPS) RWY 13
BAKER CITY MUNI (BKE)

<div><div></div><div></div></div> <div>DME/DME RNP- 0.3 NA.</div>	MISSED APPROACH: Climbing left turn to 9000 direct FEPOL and hold.
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ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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	SITOC	TAROY 6 NM to ZASKA	ZASKA	SOKNE 3.1 NM to RW13	9000	FEPOL
	8700	7700	5800	4420		
	Procedure Turn NA		3.06° TCH 55			
	6.1 NM	6 NM	4.2 NM	3.1 NM		
CATEGORY	A	B	C	D		
RNAV MDA	4080-1	710 (800-1)	4080-2 710 (800-2)	4080-2 1/4 710 (800-2 1/4)		
CIRCLING	4080-1	708 (800-1)	4080-2 708 (800-2)	4220-2 3/4 848 (900-2 3/4)		

VOR/DME BKE	APP CRS	Rwy Idg TDZE	N/A
115.3	135°	Apt Elev	N/A
Chan 100			3372

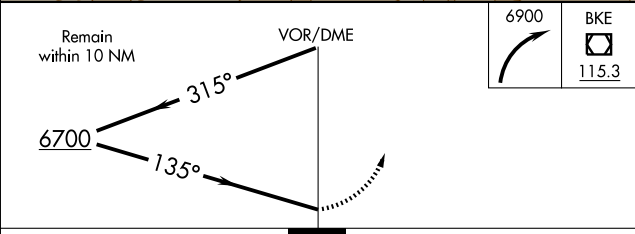
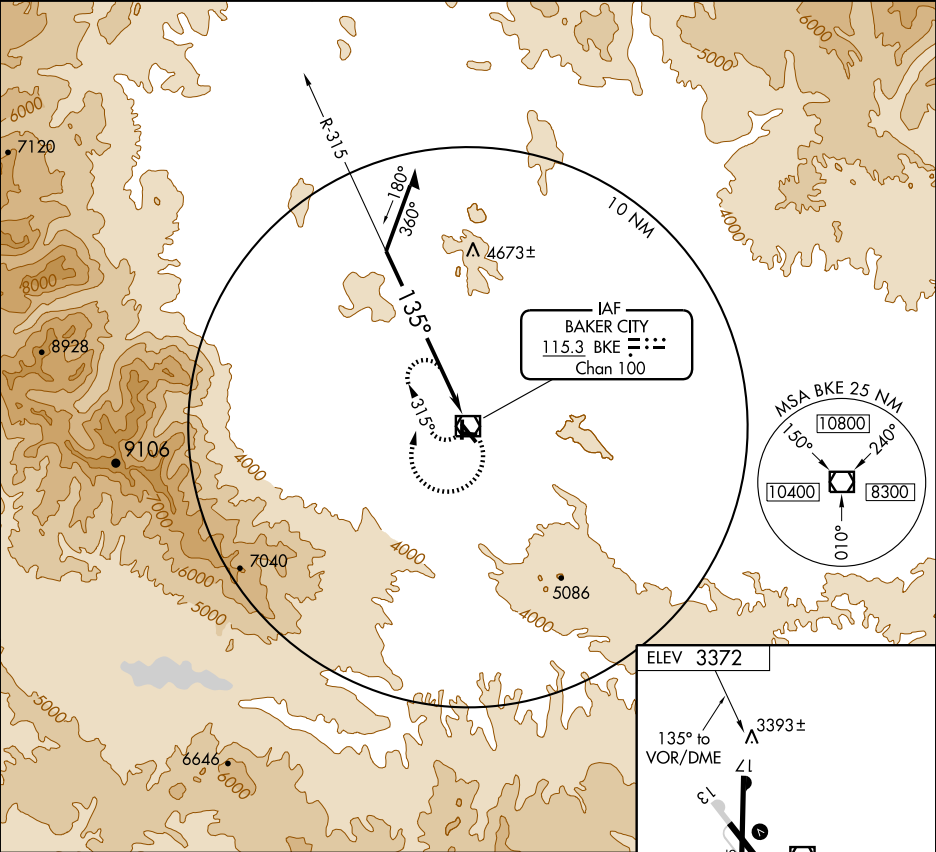
VOR-A

BAKER CITY MUNI (BKE)

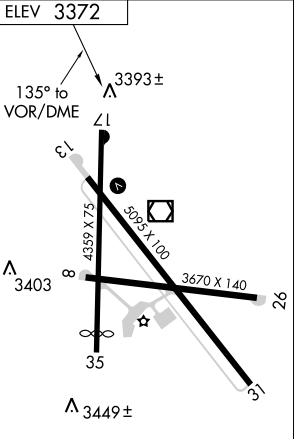


MISSED APPROACH: Climbing right turn to 6900 in BKE VOR/DME holding pattern.

ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1828 (1900-1¼)	5200-1½ 1828 (1900-1½)	5200-3 1828 (1900-3)	



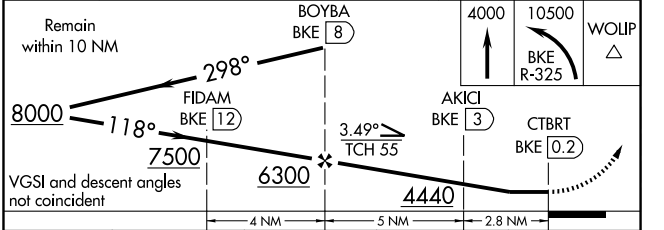
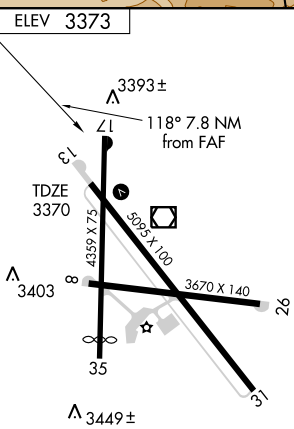
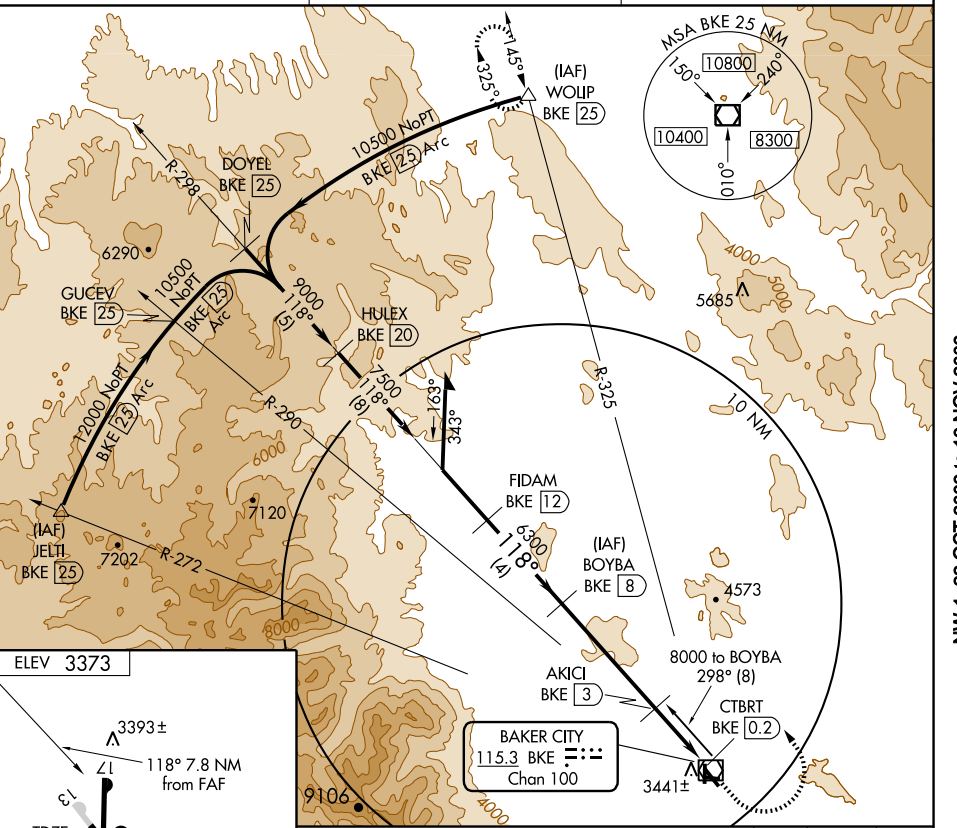
MIRL Rwy 13-31 0

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MISSED APPROACH: Climb to 4000 then climbing left turn to 10500 via BKE R-325 to WOLUP and hold.

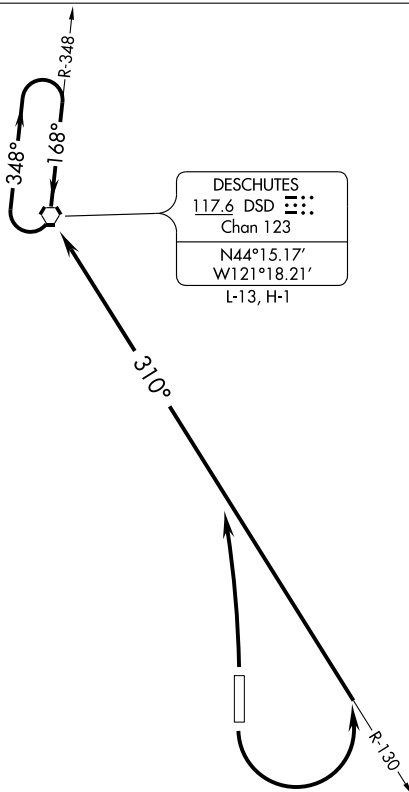
ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-13	4000-1	630 (700-1)	4000-1 3/4 630 (700-1 3/4)	4000-2 630 (700-2)
CIRCLING	4000-1 627 (700-1)	4000-1 627 (700-1)	4000-1 3/4 627 (700-1 3/4)	4220-2 3/4 847 (900-2 3/4)

BEND ONE DEPARTURE (OBSTACLE)

SEATTLE CENTER
128.15 257.75
CTAF 123.0

TAKE-OFF MINIMUMS

Rwys 16, 34: Standard.

TAKE-OFF OBSTACLE NOTES

- Rwy 16: Trees beginning 75' from DER, 412' left of centerline, up to 43' AGL/3572' MSL.
Trees beginning 432' from DER, 5' right of centerline, up to 37' AGL/3541' MSL.
Terrain beginning 27' from DER, 197' right of centerline, up to 3469' MSL.
Road 1' from DER, 414' left of centerline, 17' AGL/3466' MSL.
- Rwy 34: Trees beginning 306' from DER, 178' left of centerline, up to 25' AGL/3436' MSL.
Road beginning 460' from DER, 414' left of centerline, up to 17' AGL/3425' MSL.
Bush 94' from DER, 443' left of centerline, 4' AGL/3407' MSL.
Terrain beginning 1' from DER, 147' left of centerline, up to 3408' MSL.
Trees beginning 52' from DER, 252' right of centerline, up to 39' AGL/3429' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climbing left turn to intercept DSD R-130 to DSD VORTAC,
Thence

TAKE-OFF RUNWAY 34: Climbing left turn to intercept the DSD R-130 to DSD VORTAC,
Thence

. . . . Climb in DSD VORTAC holding pattern to cross DSD VORTAC at or above the
MEA/MCA for the route of flight.

APP CRS 326°	Rwy Idg TDZE 5200 3460 Apt Elev 3460
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RNAV (GPS) RWY 34

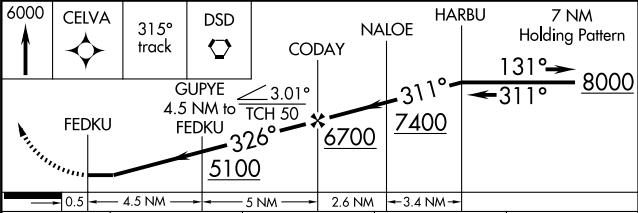
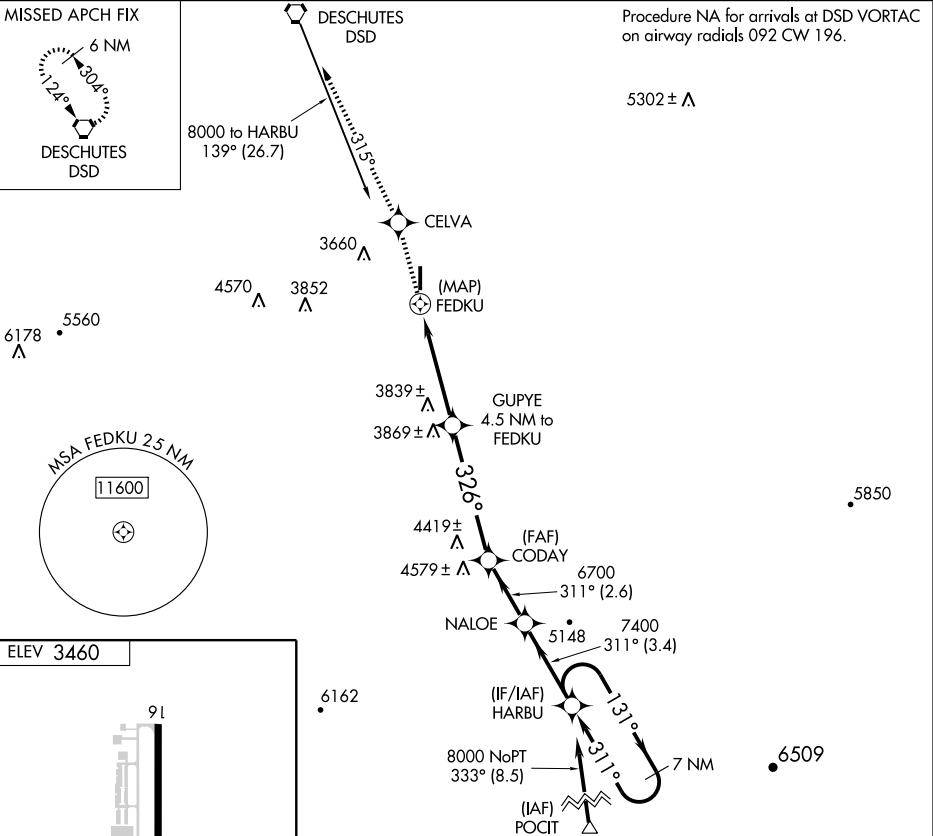
BEND MUNI (BDN)

NA

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, LNAV Cats C/D visibility ¼ mile and Circling Cat C/D visibility ¼ mile.

MISSED APPROACH: Climb to 6000 direct CELVA and via 315° track to DESCHUTES VORTAC and hold

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	4100-1	640 (700-1)	4100-1¾ 640 (700-1¾)	4100-2 640 (700-2)
CIRCLING	4100-1	640 (700-1)	4100-1¾ 640 (700-1¾)	4100-2 640 (700-2)

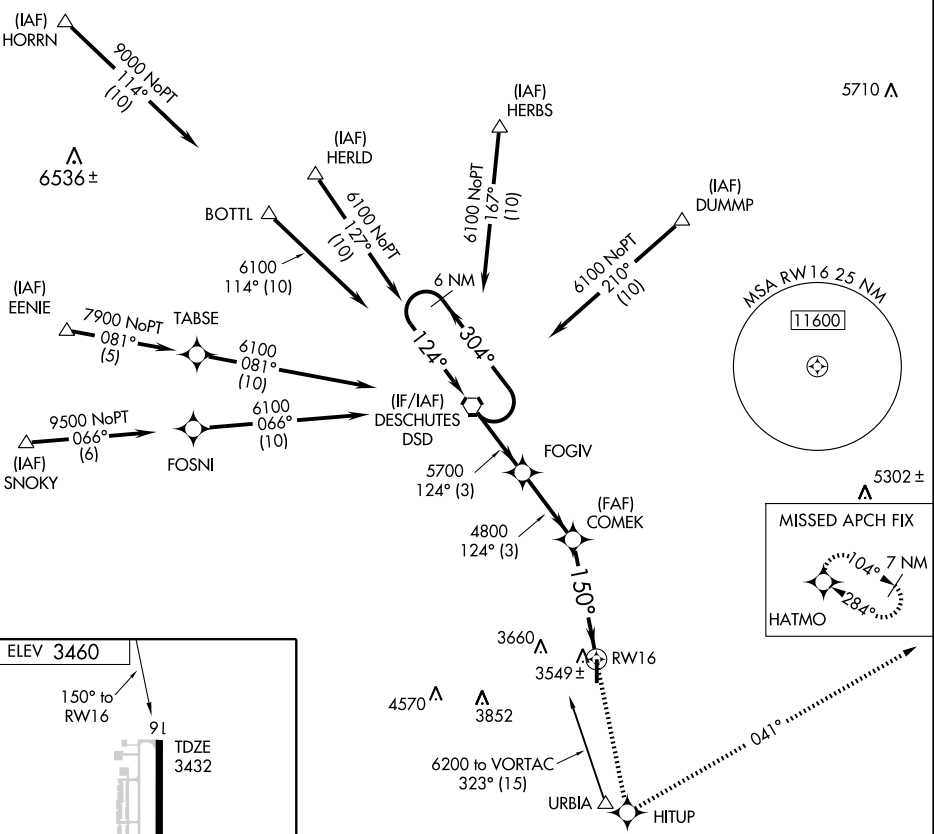
APP CRS	Rwy Idg	5200
150°	TDZE	3432
	Apt Elev	3460

RNAV (GPS) Y RWY 16
BEND MUNI (BDN)

NA DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, and LNAV Cats C/D visibility ¼ mile, and circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 7400 direct HITUP and left turn via 041° track to HATMO and hold, continue climb-in-hold to 7400.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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MIRL Rwy 16-34	6 NM Holding Pattern				7400	HITUP	HATMO
	VORTAC				↑	041° track	
	FOGIV						
	COMEK						
CATEGORY	A	B	C	D			
LNAV MDA	3800-1 368 (400-1)				3800-1¼ 368 (400-1¼)		
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1½ 540 (600-1½)	4040-2 580 (600-2)			

WAAS CH 81906 W16A	APP CRS 161°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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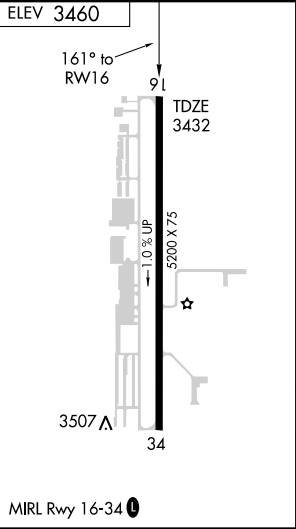
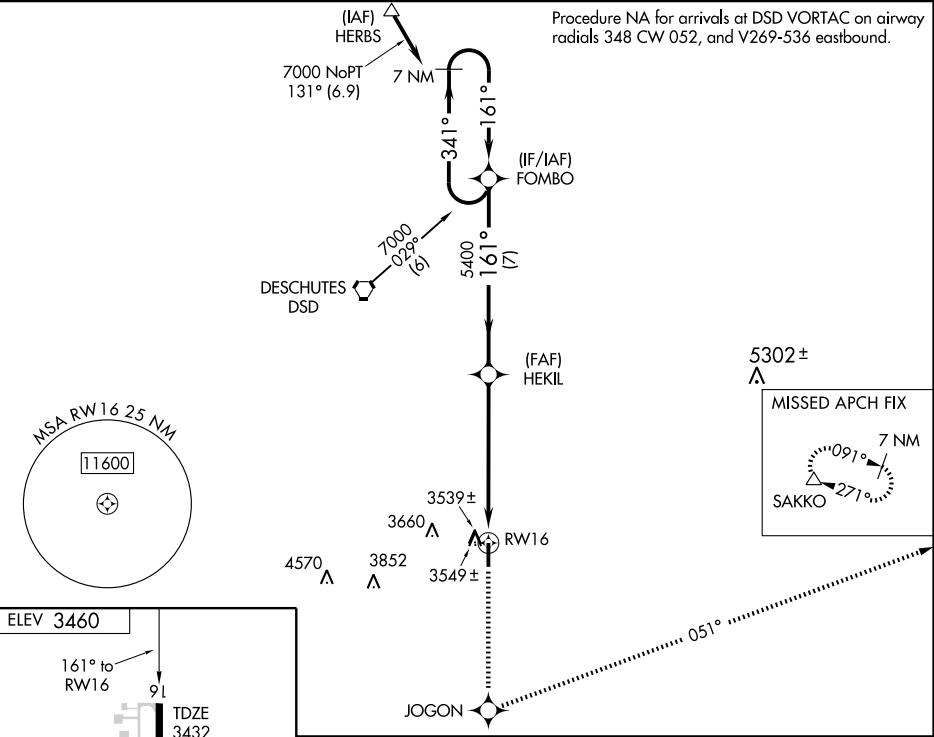
RNAV (GPS) Z RWY 16

BEND MUNI (BDN)

When local altimeter setting not received, use Redmond altimeter setting and increase all DA/MDAs by 80 feet, LPV visibilities ¼ mile all Cats, LNAV/VNAV visibilities ¼ mile all Cats, LNAV Cat D visibility ¼ mile, and circling Cat C visibility ¼ mile.
For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 42°C (107°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9500 direct JOGON and left turn via 051° track to SAKKO and hold, continue climb-in-hold to 9500.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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7 NM Holding Pattern		FOMBO	9500		JOGON	051° track	SAKKO
7000		341°	161°	5400	*1.2 NM to RW16		
GS 3.00° TCH 50		5400	*LNAV only				
		7 NM	4.8 NM	1.2 NM			
CATEGORY	A	B	C	D			
LPV DA	3682-1		250 (300-1)				
LNAV/ VNAV DA	3809-1½		377 (400-1½)				
LNAV MDA	3840-1	408 (400-1)	3840-1¼ 408 (400-1¼)				
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1½ 540 (600-1½)	4040-2 580 (600-2)			

VORTAC DSD 117.6 Chan 123	APP CRS 136°	Rwy Idg 5200 TDZE 3432 Apt Elev 3460
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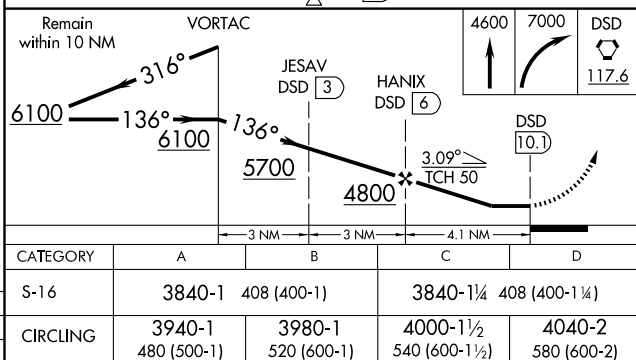
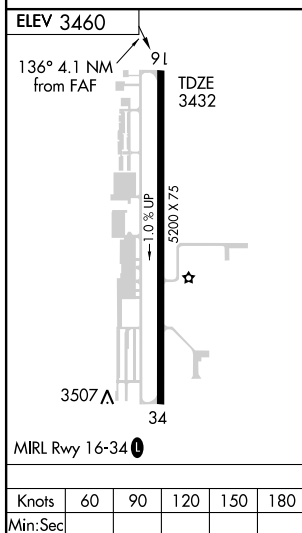
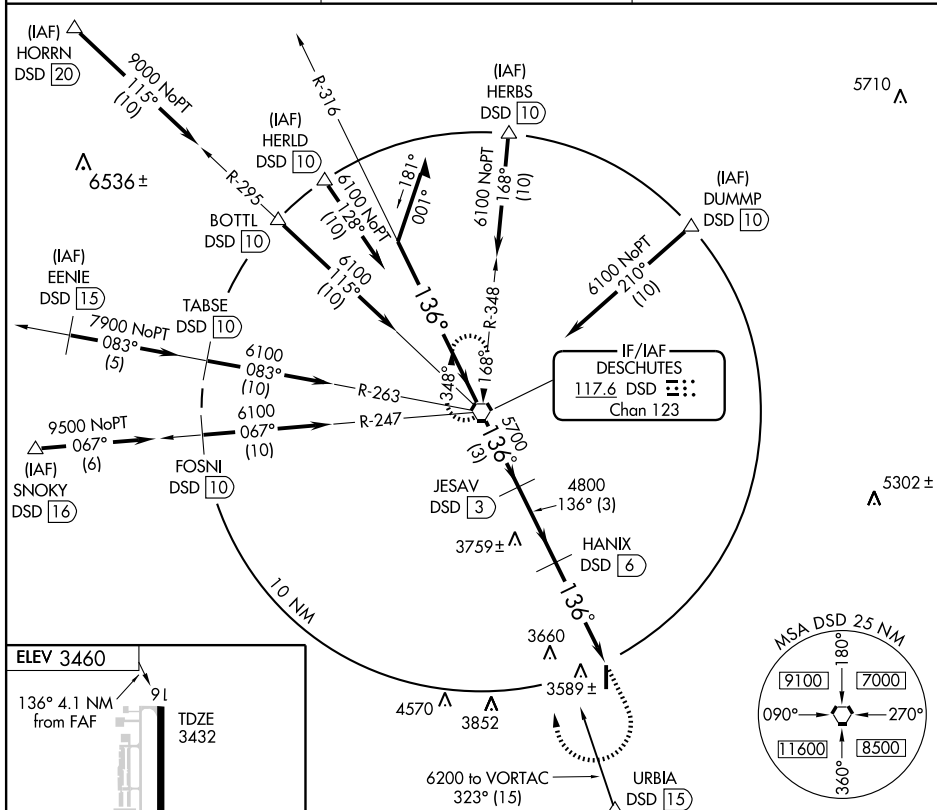
VOR/DME RWY 16
BEND MUNI(BDN)

T When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, increase S-16 Cat D visibility $\frac{1}{4}$ mile, and circling Cat C visibility $\frac{1}{4}$ mile. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.

AWOS-3
134.425

SEATTLE CENTER
128.15 257.75

UNICOM
123.0 (CTAF) **L**

APP CRS	Rwy Idg	5100
297°	TDZE	4148
	Apt Elev	4148

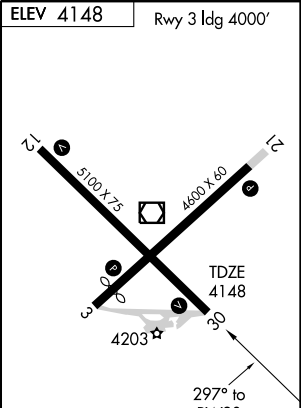
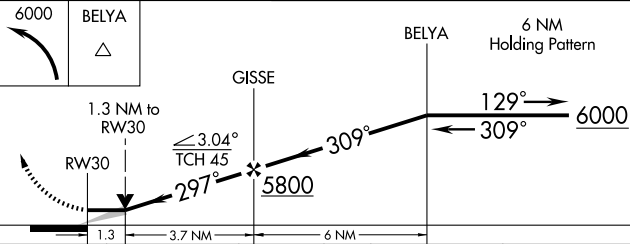
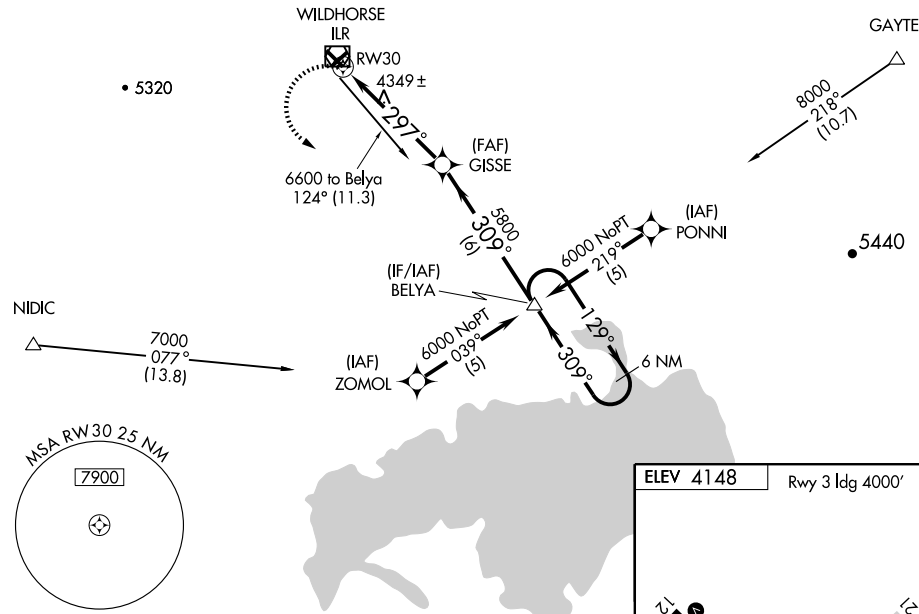
RNAV (GPS) RWY 30

BURNS MUNI (BNO)

DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing left turn to 6000 direct BELYA and hold.
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ASOS 135.575	MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF)
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Procedure NA for arrival at NIDIC via V357 southwestbound.
Procedure NA for arrival at GAYTE via V330 eastbound.
NoPT for arrival at ILR VOR/DME via V497 northwestbound.



CATEGORY	A	B	C	D
LNNAV MDA	4600-1	452 (500-1)	4600-1½ 452 (500-1½)	4600-1½ 452 (500-1½)
CIRCLING	4600-1 452 (500-1)	4680-1 532 (600-1)	4680-1½ 532 (600-1½)	4720-2 572 (600-2)

REIL Rwy 3, 12, 21 and 30
MIRL Rwy 3-21 and 12-30

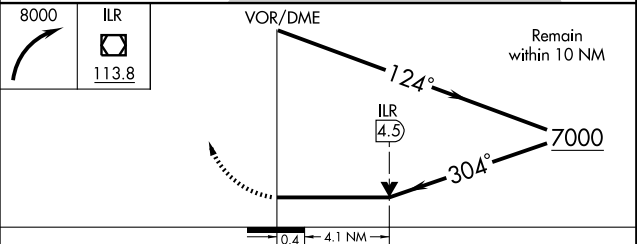
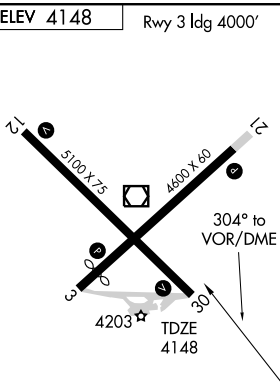
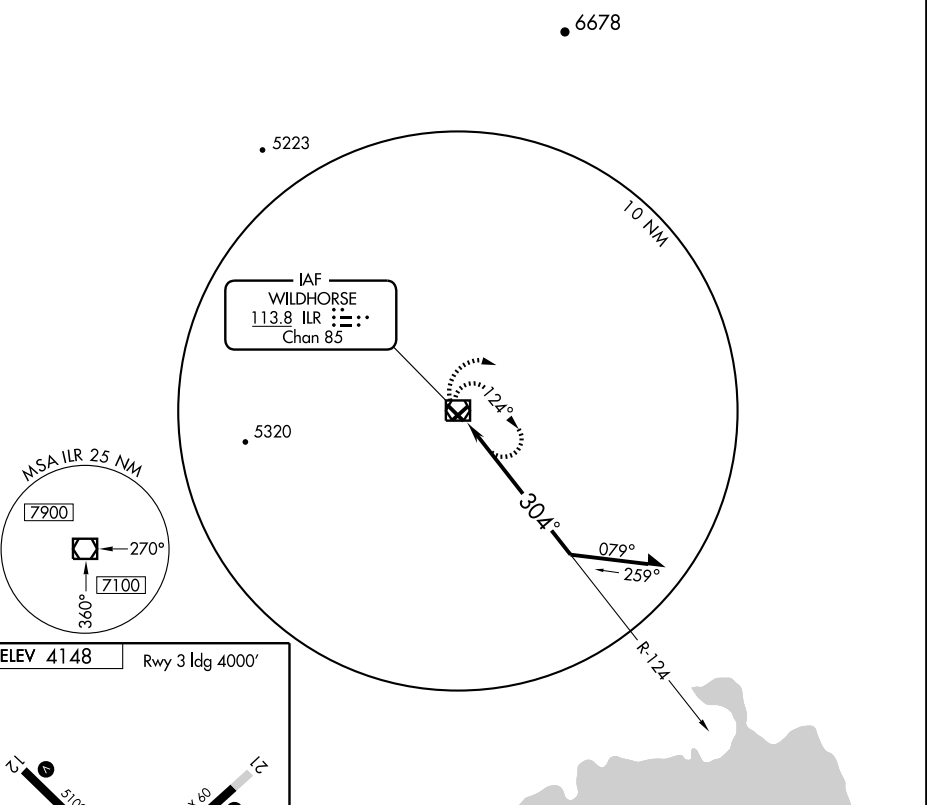
VOR RWY 30
BURNS MUNI (BNO)

VOR/DME ILR 113.8 Chan 85	APP CRS 304°	Rwy Idg TDZE Apt Elev 5100 4148 4148
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MISSED APPROACH: Climbing right turn to 8000 in ILR
VOR/DME holding pattern.


ASOS 135.575	MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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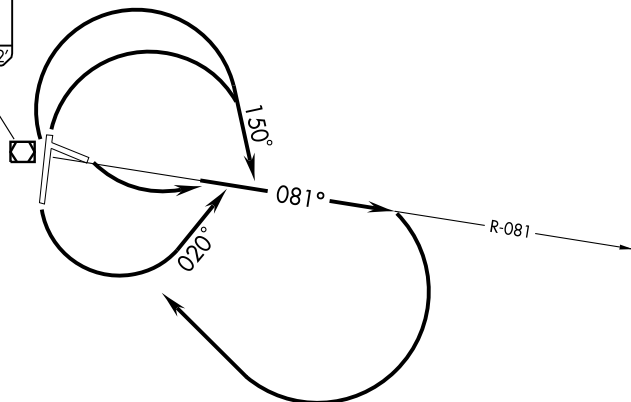


REIL Rwy 3, 12, 21 and 30 0							CATEGORY	A	B	C	D
MIRL Rwy 3-21 and 12-30 0											
Knots	60	90	120	150	180		S-30	5500-1¼ 1352 (1400-1¼)	5500-1½ 1352 (1400-1½)	5500-3	1352 (1400-3)
Min:Sec							CIRCLING	5500-1¼ 1352 (1400-1¼)	5500-1½ 1352 (1400-1½)	5500-3	1352 (1400-3)

CORVALLIS ONE DEPARTURE

AWOS-3 135.775
 CASCADE DEP CON ★
 127.5 348.7
 CTAF 123.0
 SEATTLE CENTER
 125.8

CORVALLIS
 115.4 CVO 
 Chan 101
 N44°29.97'-W123°17.62'

**TAKEOFF MINIMUMS**

Rwy 9, 200-1 or standard with minimum climb of 245' per NM to 500.

Rwys 17/35, standard.

Rwy 27, standard with minimum climb of 310' per NM to 2300.

TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL.

Rwy 27: OL on GS 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from departure end of runway, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from departure end of runway, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081, thence. . .

.... climbing right turn to 4000 direct CVO VOR/DME. Continue climb on course to MEA for route of flight.

LOST COMMUNICATIONS: If not contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

LOC I-CVO	APP CRS	Rwy Idg	5900
111.9	169°	TDZE	244
		Apt Elev	246

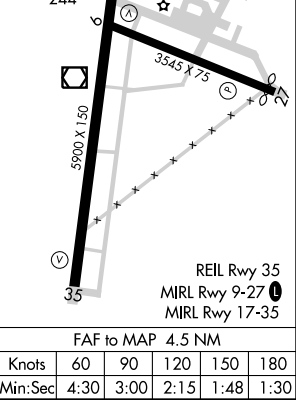
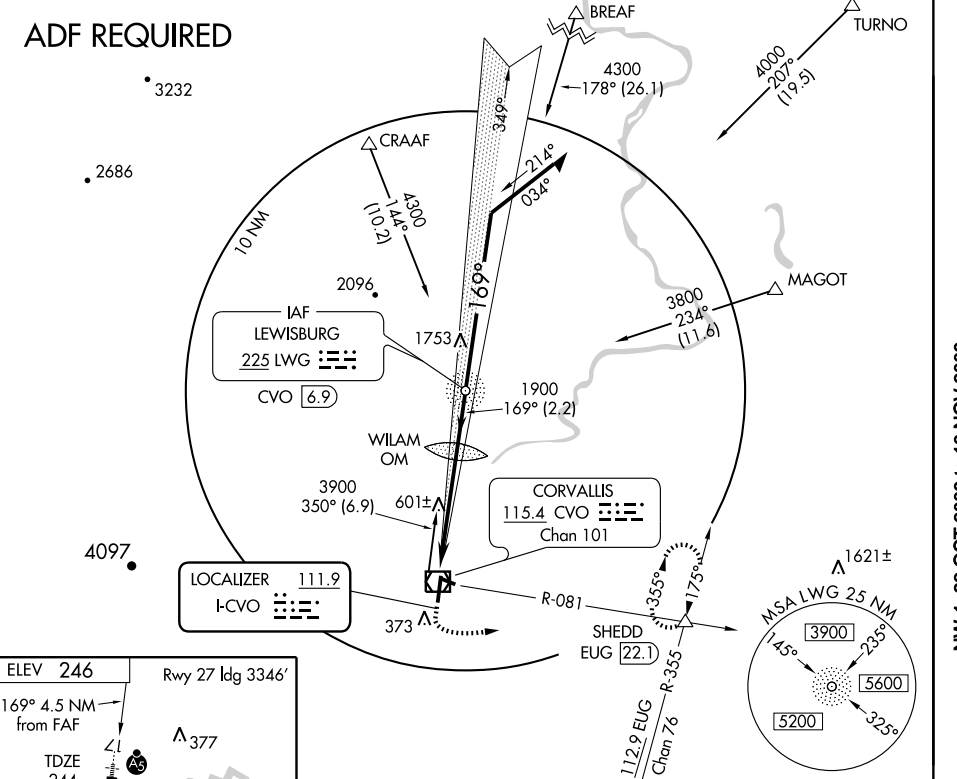
▼

NA

MALSR

MISSED APPROACH: Climb to 900 then climbing left turn to 3000 via the CVO R-081 to SHEDD Int and hold.

AWOS-3 135.775	CASCADE APP CON* 127.5 348.7	UNICOM 123.0 (CTAF) 0
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900 ↑	3000 CVO R-081	SHEDD △	LWG NDB CVO 6.9				Remain within 10 NM
CVO 0.2			WILAM OM	2448	349°	3700	
			1732	169°	3300		
			1900*	2500*	GS 3.00° TCH 45		
			*LOC only				
4.5 NM			2.2 NM				
CATEGORY	A		B		C	D	
S-ILS 17	444-½		200 (200-½)				
S-LOC 17	860-½ 616 (700-½)		860-1¼ 616 (700-1¼)		860-1½ 616 (700-1½)		
CIRCLING	860-1 614 (700-1)		860-1¾ 614 (700-1¾)		880-2 634 (700-2)		

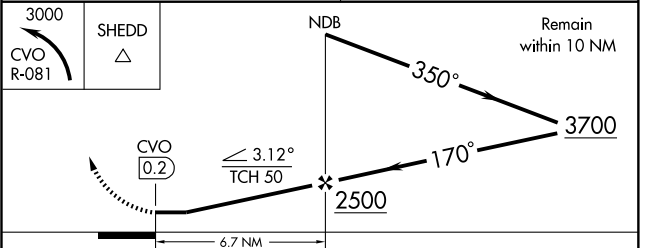
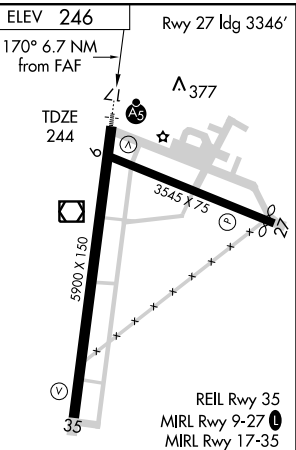
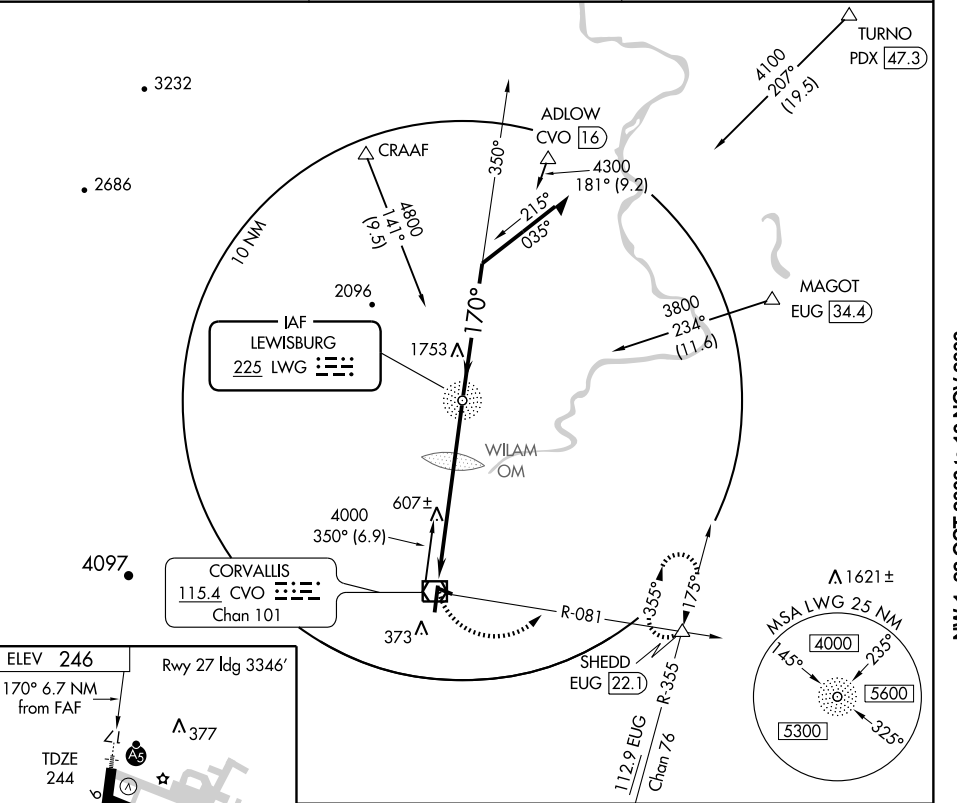
▼

▲ NA

MALSR

MISSED APPROACH: Climbing left turn to 3000 via the CVO R-081 to SHEDD Int/EUG 22.1 DME and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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FAF to MAP 6.7 NM							CATEGORY	A	B	C	D
S-17								960-¾	716 (800-¾)	960-1½ 716 (800-1½)	960-2 716 (800-2)
CIRCLING								960-1	714 (800-1)	960-2 714 (800-2)	960-2¼ 714 (800-2¼)
Knots	60	90	120	150	180						
Min:Sec	6:42	4:28	3:21	2:41	2:14						

WAAS CH 78311 W17A	APP CRS 169°	Rwy Idg 5900 TDZE 248 Apt Elev 250
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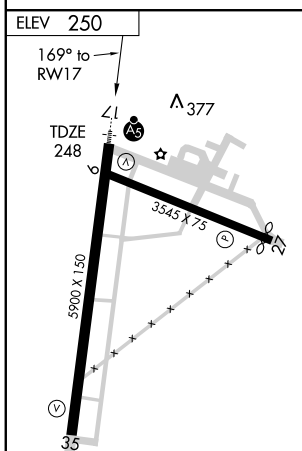
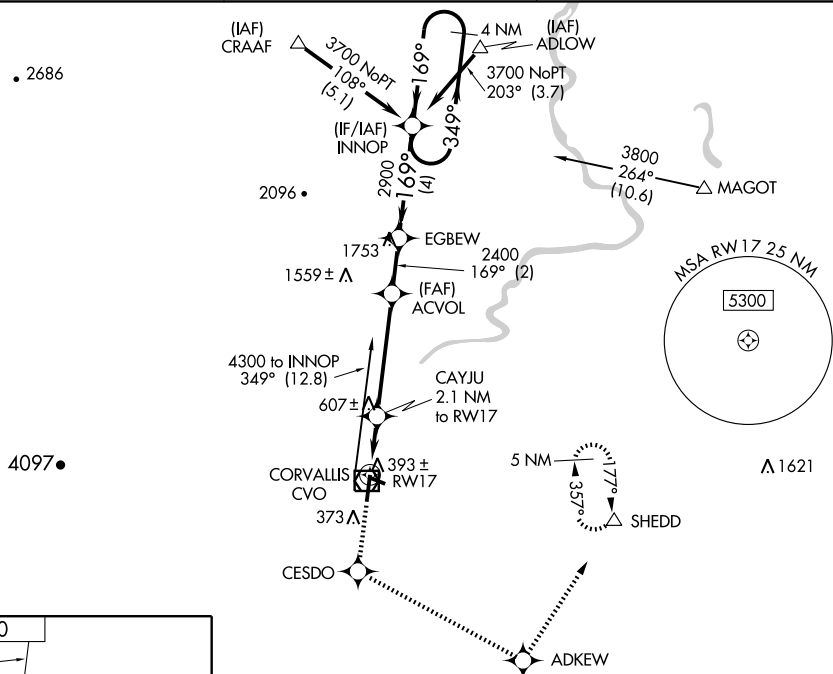
RNAV (GPS) RWY 17
CORVALLIS MUNI (CVO)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Inoperative table does not apply to LNAV Cats A and B. For inoperative MALSR increase LNAV Cats C and D visibility to 1¼.

MALS^R

MISSED APPROACH: Climb to 3000 direct CESDO and via 100° track to ADKEW and via 015° track to SHEDD and hold.

AWOS-3 135.775	CASCADE APP CON * 127.5 348.7	UNICOM 123.0 (CTAF) 0
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VGSI and glidepath not coincident. 4 NM Holding Pattern		3000 ↑	CESDO ✦	100° track ✦	ADKEW ✦	015° track ✦	SHEDD △
INNOP		* NNAV only					
3700 ← 349° 169° →		EGBEW 2900	ACVOL 2400	CAYJU 2.1 NM to RW17	RW17		
GS 3.00° TCH 45		4 NM	2 NM	4.4 NM	2.1		
CATEGORY	A	B	C	D			
LPV DA		582-1	334 (400-1)				
RNAV/DA		670-1	422 (500-1)				
RNAV MDA		660-1	412 (500-1)				
CIRCLING	720-1 470 (500-1)		720-1½ 470 (500-1½)	900-2 650 (700-2)			

REIL Rwy 35
MIRL Rwy 9-27 **L**
MIRL Rwy 17-35

APP CRS	Rwy Idg	5900
349°	TDZE	246
	Apt Elev	246

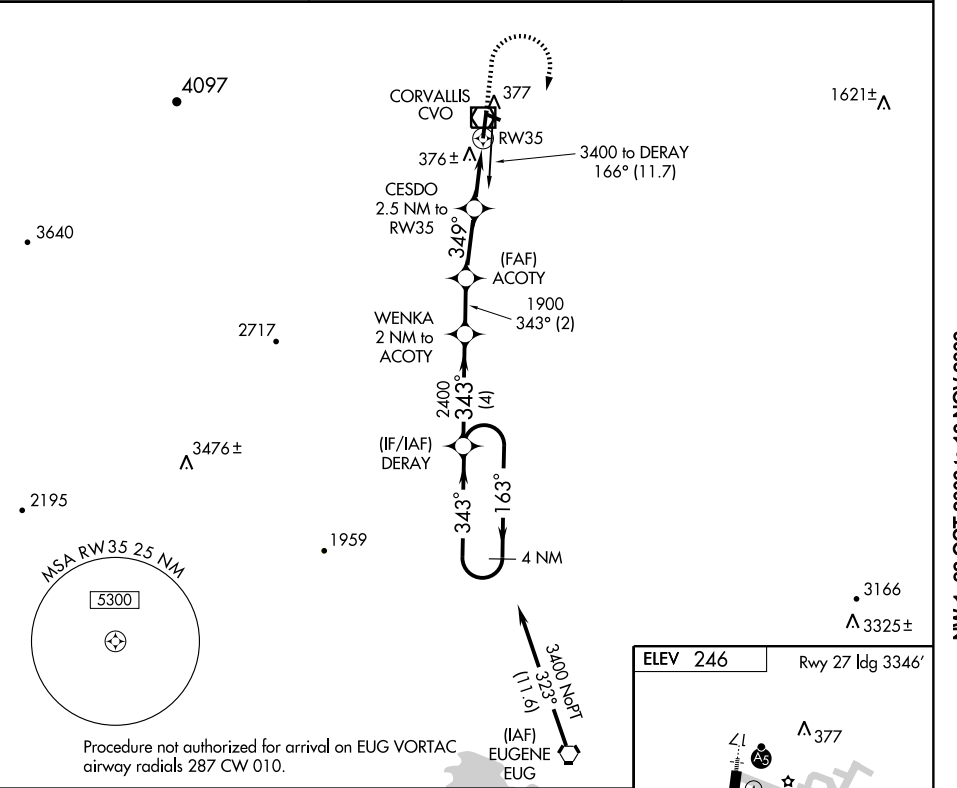
▽

NA

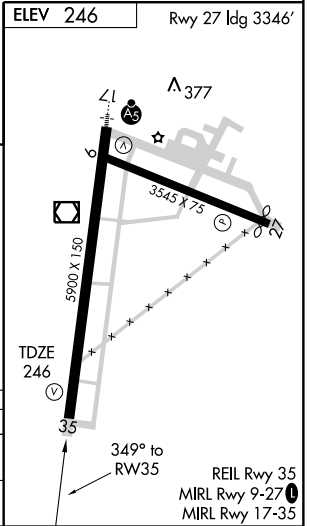
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 3400 direct DERAY WP and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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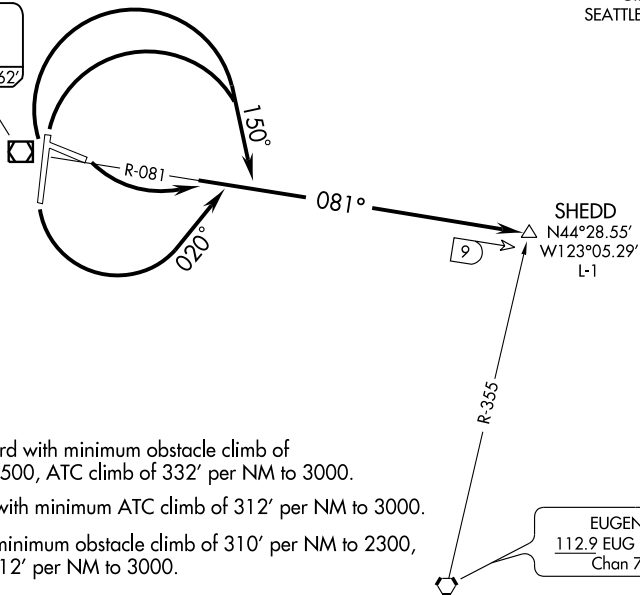


	DERAY		4 NM Holding Pattern	
	RW35		DERAY	
	CESDO 2.5 NM to RW35		ACOTY	
	1.1 NM to RW35		WENKA 2 NM to ACOTY	
	1.4 NM		1900	
	1.1 NM		2400	
	1.4 NM		343°	
	2.5 NM		163°	
	2 NM		3400	
	4 NM		349°	
CATEGORY	A		B	
LNAV MDA	660-1 414 (500-1)		660-1½ 414 (500-1½)	
CIRCLING	720-1 474 (500-1)		720-1½ 474 (500-1½)	



SHEDD ONE DEPARTURE

CORVALLIS
115.4 CVO
Chan 101
N44°29.97'-W123°17.62'



AWOS-3 135.775
CASCADE DEP CON ★
127.5 348.7
CTAF 123.0
SEATTLE CENTER
125.8

TAKEOFF MINIMUMS

- Rwy 9, 200-1 or standard with minimum obstacle climb of 245' per NM to 500, ATC climb of 332' per NM to 3000.
- Rwys 17/35, standard with minimum ATC climb of 312' per NM to 3000.
- Rwy 27, standard with minimum obstacle climb of 310' per NM to 2300, ATC climb of 312' per NM to 3000.

TAKEOFF OBSTACLE NOTES

- Rwy 9: Multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL.
Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL.
- Rwy 27: OL on GS 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.
- Rwy 35: Multiple trees beginning 470' from departure end of runway, 544' left of centerline, up to 36' AGL/276' MSL.
Tree 2.3 NM from departure end of runway, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081 to SHEDD INT, thence. . .

. . . via assigned route/clearance.

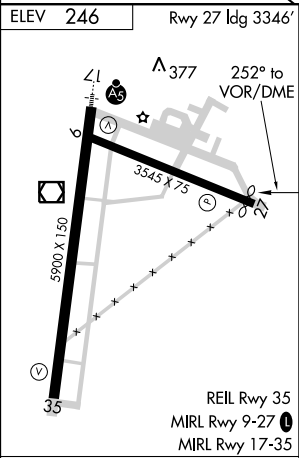
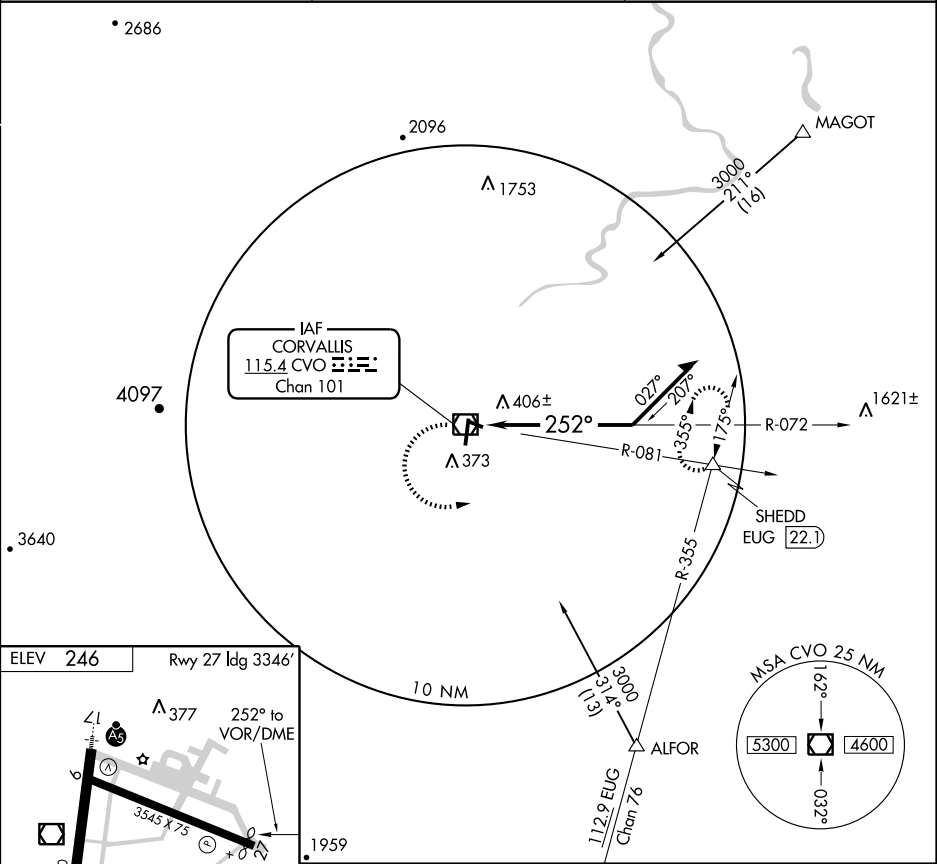
LOST COMMUNICATIONS: If not contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.




VOR/DME CVO 115.4 Chan 101	APP CRS 252°	Rwy Idg TDZE Apt Elev	N/A N/A 246
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VOR-A
CORVALLIS MUNI (CVO)

 	MISSED APPROACH: Climbing left turn to 3000 via CVO VOR/DME R-081 to SHEDD Int/EUG 22.1 DME and hold.
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AWOS-3 135.775	CASCADE APP CON* 127.5 348.7	UNICOM 123.0 (CTAF)
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 CVO R-081	SHEDD 	VOR/DME 	Remain within 10 NM
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Knots	60	90	120	150	180	CATEGORY	A	B	C	D
Min:Sec						CIRCLING	1400-1¼ 1154 (1200-1¼)	1400-1½ 1154 (1200-1½)	1400-3	1154 (1200-3)

VOR/DME CVO	APP CRS	Rwy Idg	5900
115.4	177°	TDZE	244
Chan 101		Apt Elev	246

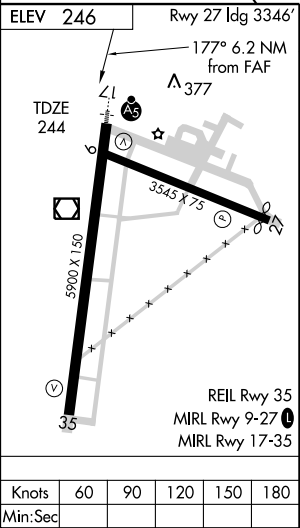
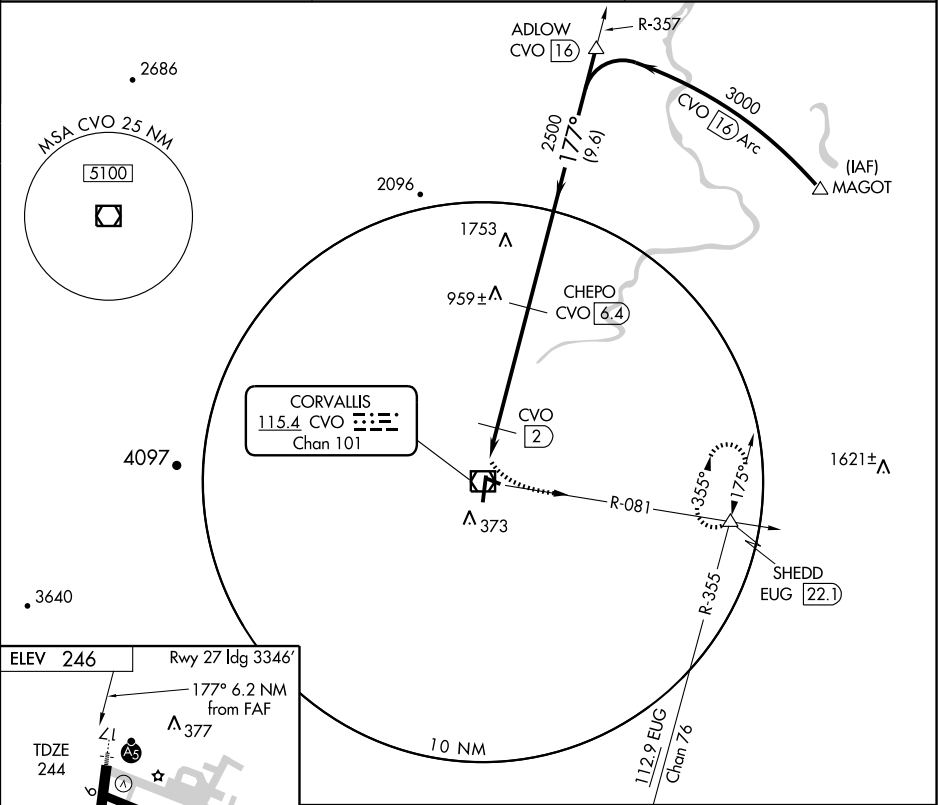
VOR/DME RWY 17
CORVALLIS MUNI (CVO)


▼ For inoperative MALS, increase S-17 Cat. D to 1 1/4 mile.

MALS

MISSED APPROACH: Climbing left turn to 3000 via CVO R-081 to SHEDD Int and hold.

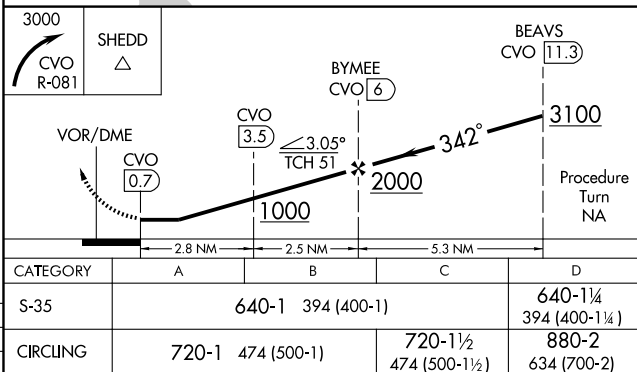
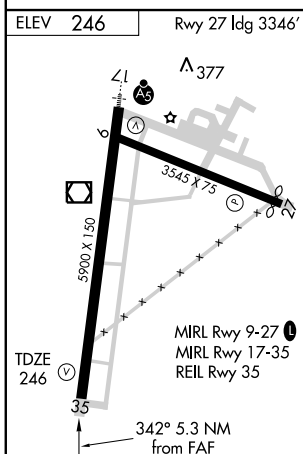
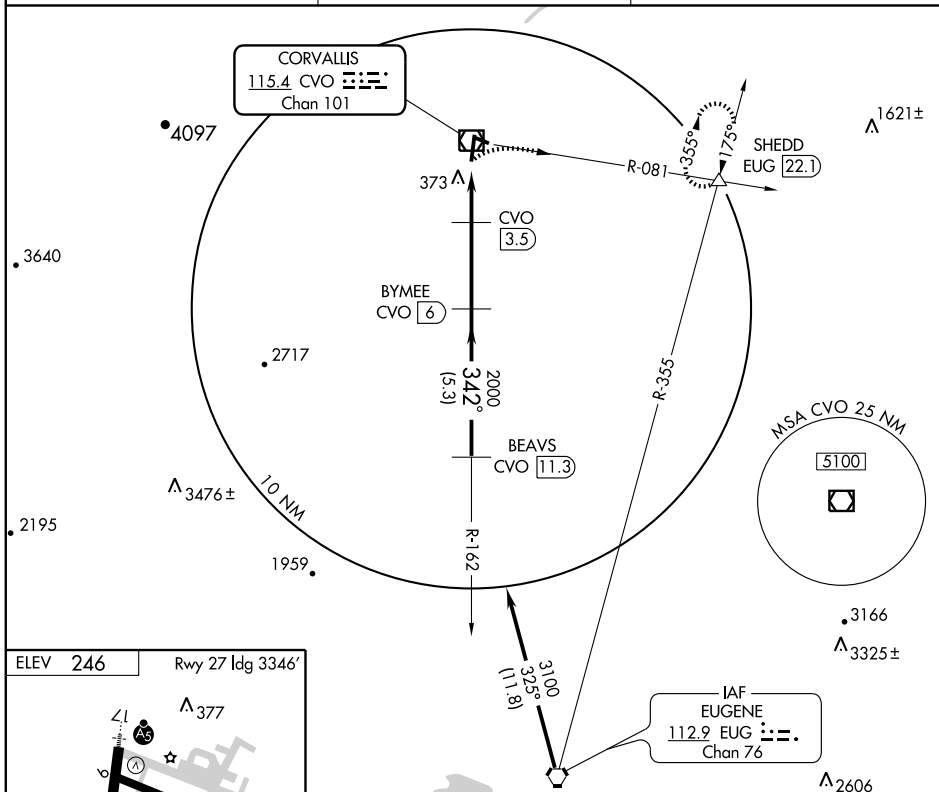
AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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		SHEDD △		ADLOW CVO 16	
3000		CHEPO CVO 6.4		3000	
VOR/DME		CVO 2		177°	
CVO 0.5		900		2500	
0.3		1.5 NM		4.4 NM	
				9.6 NM	
		Procedure Turn NA			
CATEGORY	A	B	C	D	
S-17	660-1/2	416 (500-1/2)	660-3/4 416 (500-3/4)	660-1 416 (500-1)	
CIRCLING	720-1	474 (500-1)	720-1 1/2 474 (500-1 1/2)	880-2 634 (700-2)	

MISSED APPROACH: Climbing right turn to 3000 via CVO R-081 to SHEDD Int and hold.

UNICOM
123.0 (CTAF) **L**

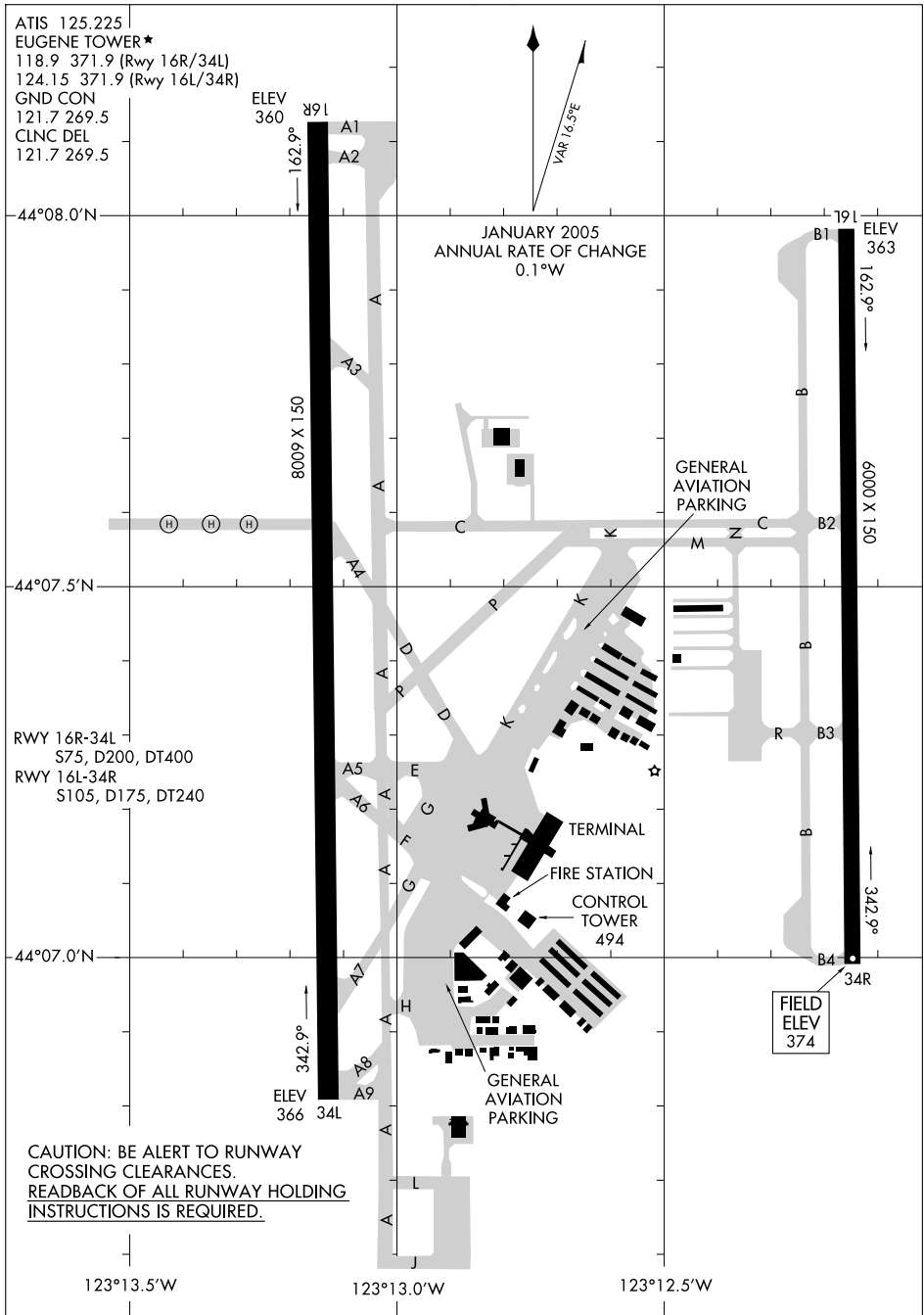


AIRPORT DIAGRAM

AL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON



EUGENE SEVEN DEPARTURE

SL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON

ATIS 125.225
GND CON
121.7 269.5
EUGENE TOWER ★
118.9 (CTAF) 371.9 (Rwy 16R-34L)
124.15 371.9 (Rwy 16L-34R)
CASCADE DEP CON
119.6 348.7

NEWPORT
117.1 ONP
Chan 118
N44°34.52' - W124°03.64'
L-1, H-1

CORVALLIS
115.4 CVO
Chan 101
N44°29.97' - W123°17.62'
L-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19' - W122°58.69'
L-1, H-1

BATTLEGROUND
116.6 BTG
Chan 113
N45°44.87' - W122°35.49'
L-1, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 16R: Tree 1992' from DER, 832' left of centerline, 50' AGL/419' MSL.

Rwy 16L: Multiple trees and power poles beginning 872' from DER, 35' right of centerline, up to 50' AGL/437' MSL.

Multiple trees and power poles beginning 890' from DER, 77' left of centerline, up to 50' AGL/433' MSL.

Rwy 34R: Multiple trees beginning 2869' from DER, 186' right of centerline, up to 50' AGL/447' MSL.
Tree 2535' from DER, 652' left of centerline, 50' AGL/428' MSL.

EUGENE
112.9 EUG
Chan 76
N44°07.25' - W123°13.37'
L-1, H-1

DESCHUTES
117.6 DSD
Chan 123
N44°15.17' - W121°18.21'
L-13, H-1

NORTH BEND
112.1 OTH
Chan 58
N43°24.93' - W124°10.11'
L-1

ROSEBURG
108.2 RBG
Chan 19
N43°10.95' - W123°21.13'
L-1

ROGUE VALLEY
113.6 OED
Chan 83
N42°28.77' - W122°54.78'
L-2, H-3

KLAMATH FALLS
115.9 LMT
Chan 106
N42°09.19' - W121°43.65'
L-2, H-3

TAKE-OFF MINIMUMS

Rwy 16L/16R: Standard with minimum climb of 305' per NM to 6000.

Rwy 34L/34R: Standard with minimum climb of 320' per NM to 6000.

NOTE: Aircraft taxiing beyond Rwy 16R departure end 500' left of centerline.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 16L and 16R: Climb via heading 160° (or ATC assigned heading) for vectors to assigned route/fix

TAKE-OFF RUNWAYS 34L and 34R: Climb via heading 340° (or ATC assigned heading) for vectors to assigned route/fix



. . . . maintain 9000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

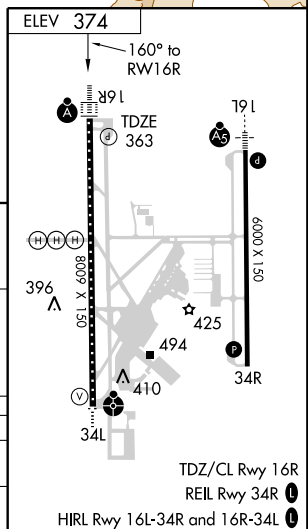
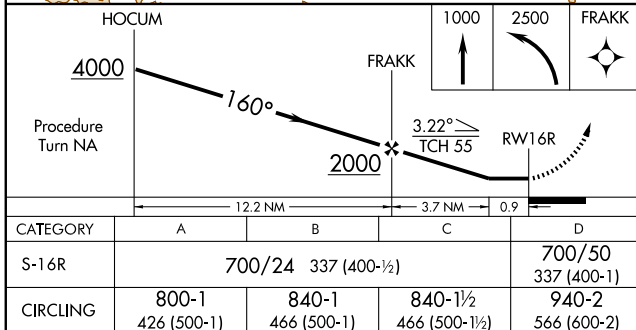
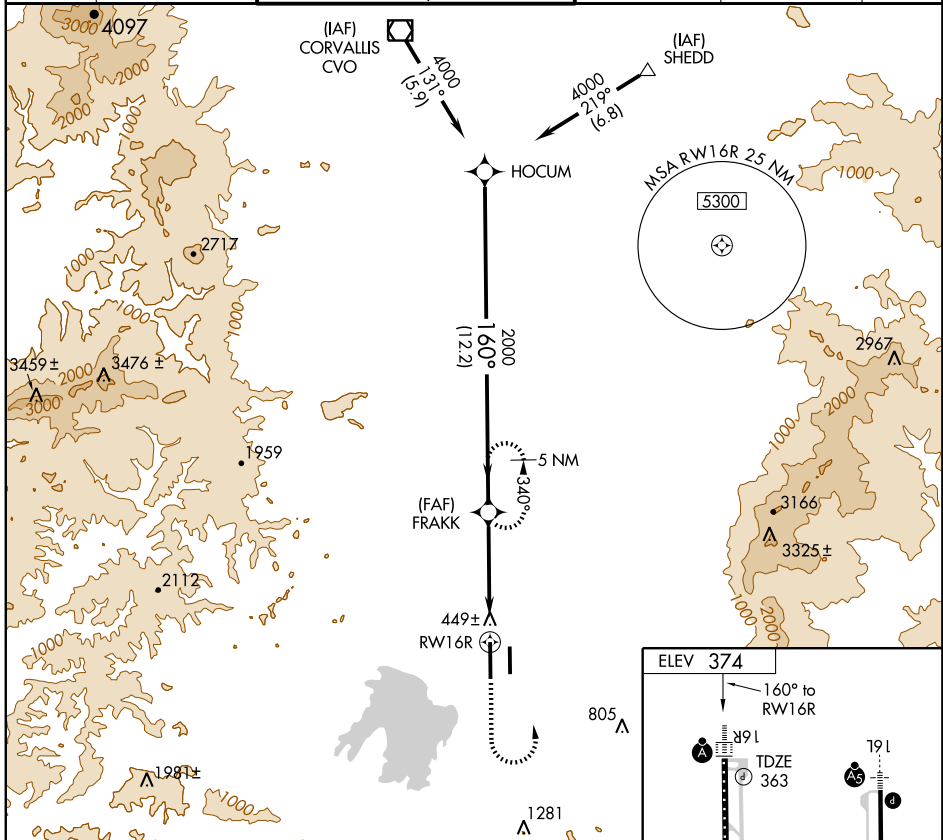
LOST COMMUNICATIONS: If not in contact with ATC after reaching 3000', continue climb to assigned altitude direct EUG VORTAC, climb in EUG VORTAC holding pattern (hold N, RT, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding enroute.

APP CRS 160°	Rwy Idg TDZE Apt Elev	8009 363 374
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GPS RWY 16R

EUGENE/MAHLON SWEET FIELD (EUG)

 NA Inoperative table does not apply to S-16R Cat D.		 ALS-F-2		MISSED APPROACH: Climb to 1000 then climbing left turn to 2500 direct FRAKK WP and hold.	
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)		GND CON 121.7 269.5	CLNC DEL 121.7 269.5
				UNICOM 122.95	



LOC/DME F-ADE 111.75 Chan 54 (Y)	APP CRS 160°	Rwy Idg 6000 TDZE 369 Apt Elev 374
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ILS or LOC/DME RWY 16L

EUGENE/MAHLON SWEET FIELD (EUG)

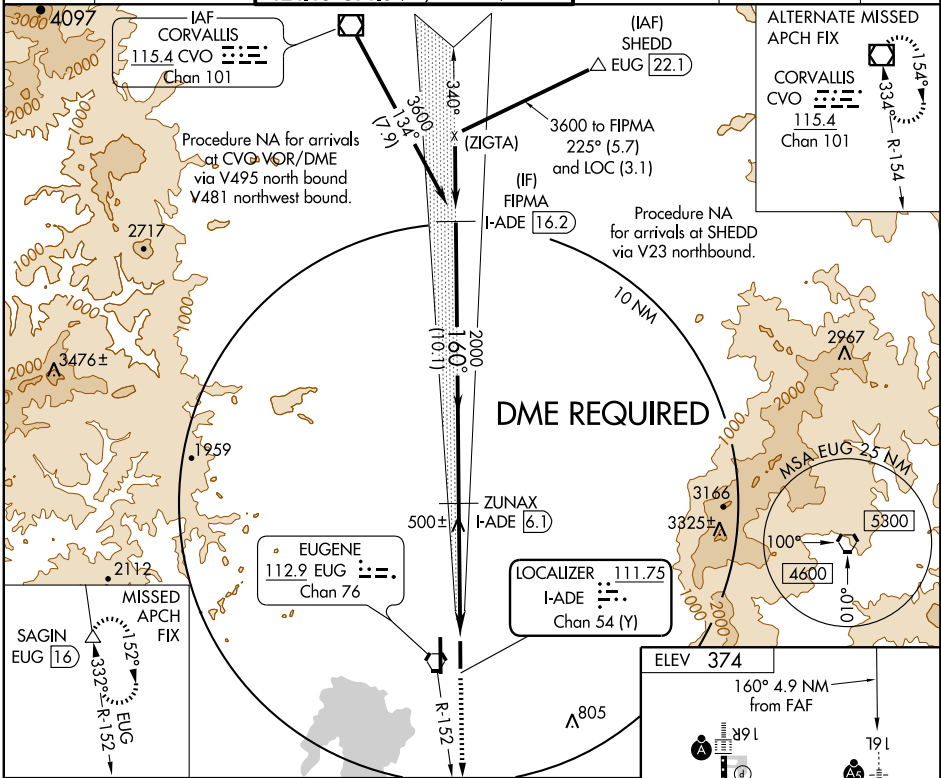
T If local altimeter setting not received, use Corvallis altimeter setting and increase all DAs 70 feet, and all MDAs 80 feet.

A VDP NA when using Corvallis altimeter setting.

MALSR

MISSED APPROACH: Climb to 5200 via heading 160° and EUG VORTAC R-152 to SAGIN/EUG 16 DME and hold, continue climb-in-hold to 5200.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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NW-1. 22 OCT 2009 to 19 NOV 2009

Procedure Turn NA

FIPMA I-ADE 16.2

VGS1 and ILS glidepath not coincident. Use I-ADE DME when on the localizer course.

EUG R-152 112.9

SAGIN \triangle

3600

160°

2000

ZUNAX I-ADE 6.1

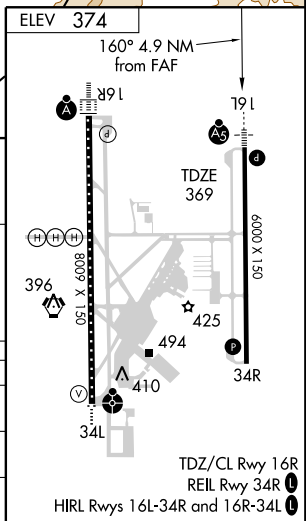
10.1 NM

3.7 NM

1.2

GS 3.00° TCH 46

CATEGORY	A	B	C	D
S-ILS 16L	569-1/2 200 (200-1/2)			
S-LOC 16L	800-1/2 431 (500-1/2)	800-3/4 431 (500-3/4)		800-1 431 (500-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1 1/2 466 (500-1 1/2)	940-2 566 (600-2)



LOC/DME I-EUG
110.1
Chan **38**

APP CRS
160°

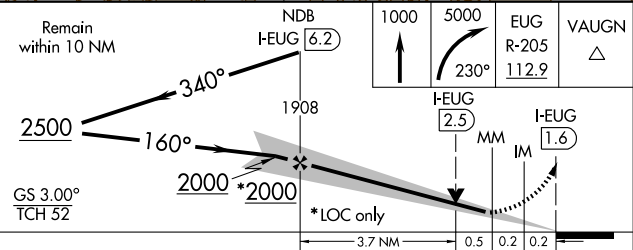
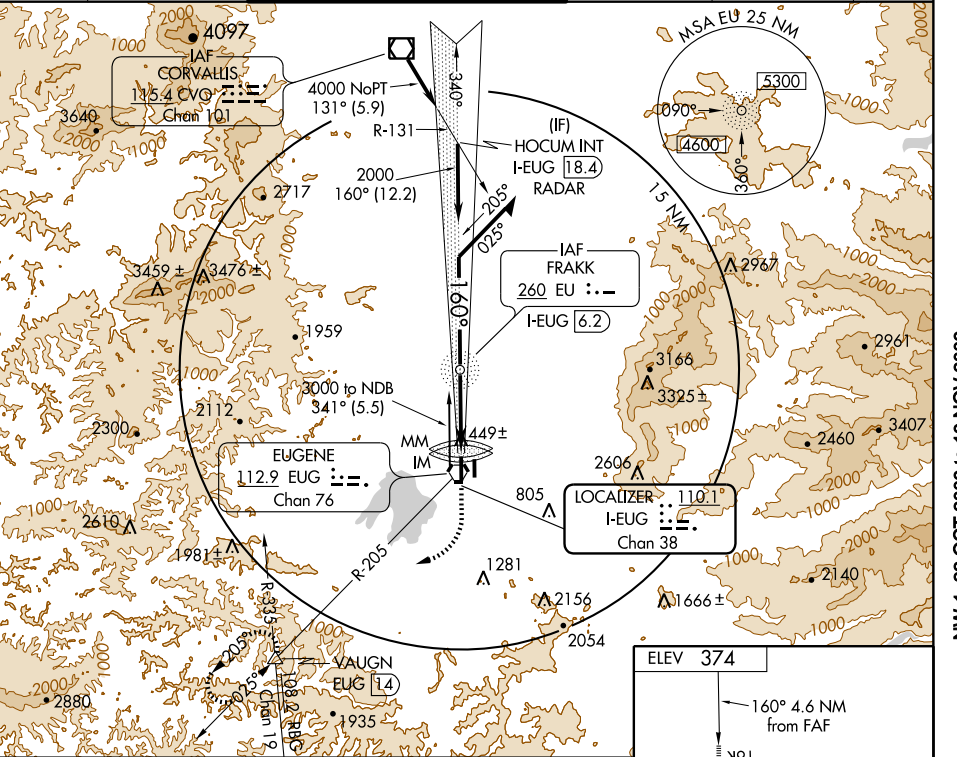
Rwy Idg **8009**
TDZE **364**
Apt Elev **374**

For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.
DME required.

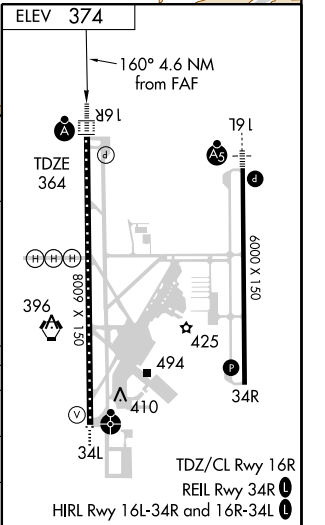
ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGHN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95





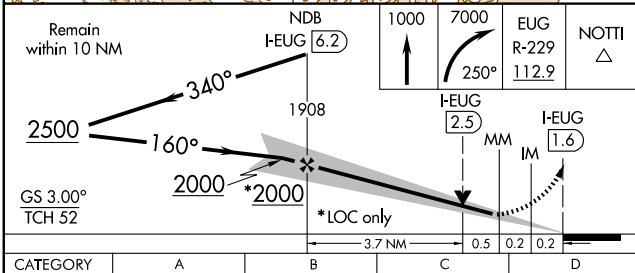
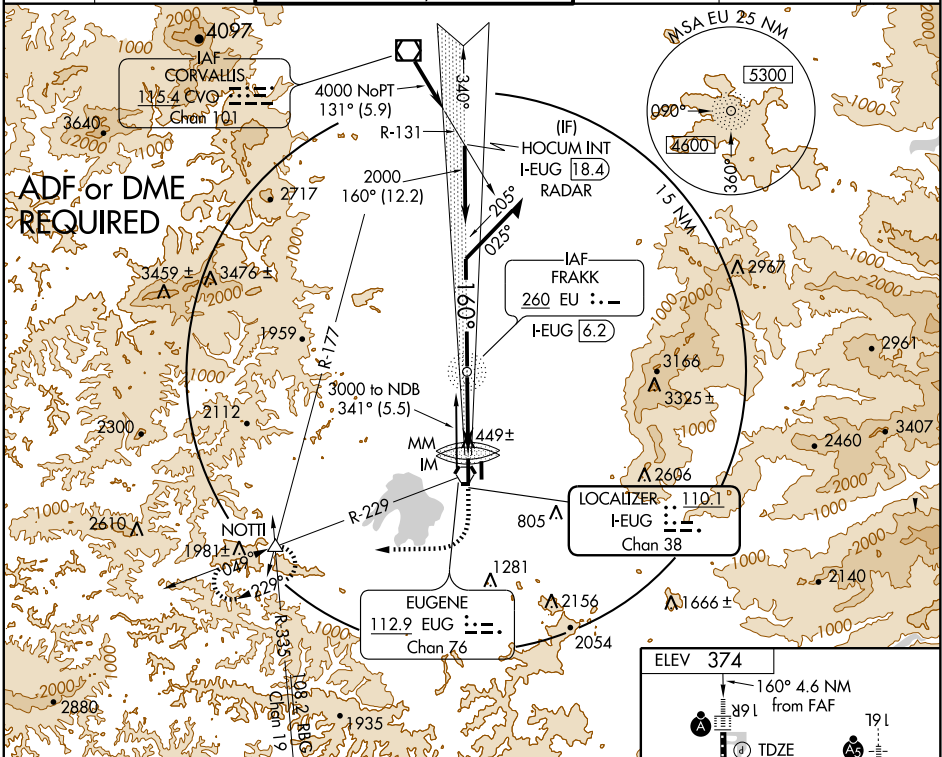
CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



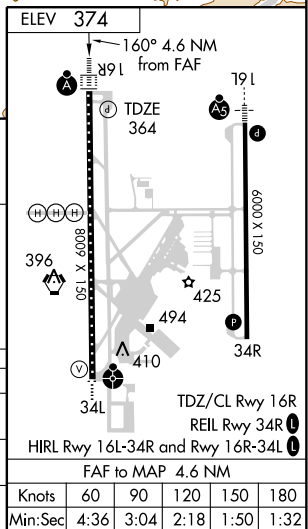
LOC/DME I-EUG 110.1 Chn 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS or LOC Y RWY 16R
EUGENE/MAHLON SWEET FIELD (EUG)

	For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.			MISSED APPROACH: Climb to 1000 then climbing right turn to 7000 via heading 250° and EUG R-229 to NOTT INT and hold, continue climb-in-hold to 7000.			
	ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)		GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95



CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-½)	940-2 566 (600-2)



LOC/DME I-EUG <u>110.1</u> Chn 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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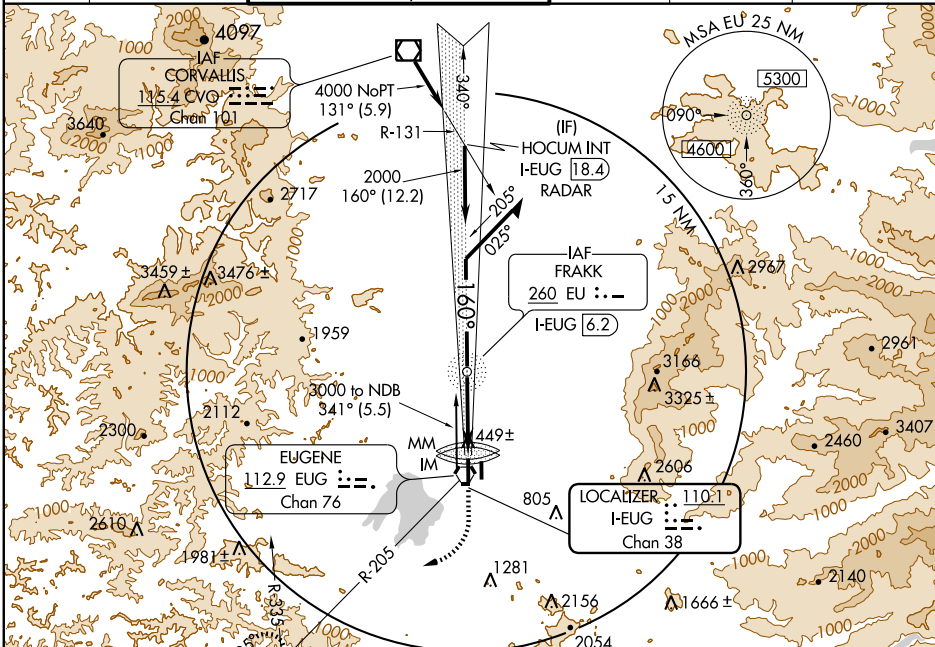
ILS RWY 16R (CAT II)
EUGENE/MAHLON SWEET FIELD (EUG)

T Cat II minimums not authorized when control tower closed.
A DME required.

ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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Remain within 10 NM

NDB

I-EUG [6.2]

1908

2500

340°

160°

GS 3.00°

TCH 52

2000

1000

5000

EUG R-205 112.9

VAUGHN

DH

RA108

MM

IM

364 MSL

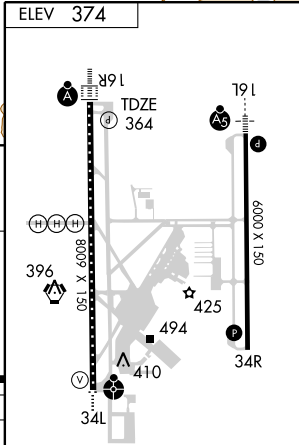
4.2 NM

1517'

983'

950'

CATEGORY	A	B	C	D
S-ILS 16R	464/12 100 RA 108			



CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 16R
REIL Rwy 34R **L**
HIRL Rwy 16L-34R and 16R-34L **L**

LOC/DME I-EUG <u>110.1</u> Chn 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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ILS RWY 16R (CAT III)

EUGENE/MAHLON SWEET FIELD (EUG)

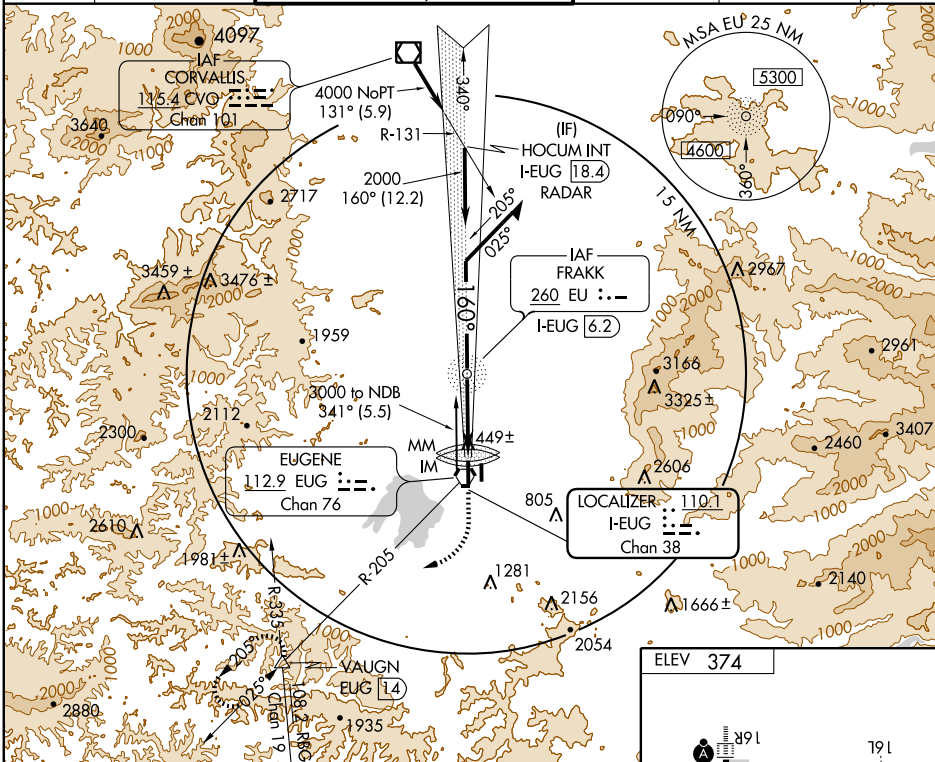
- T** Cat III minimums not authorized when control tower closed.
A DME required.

ALSF-2



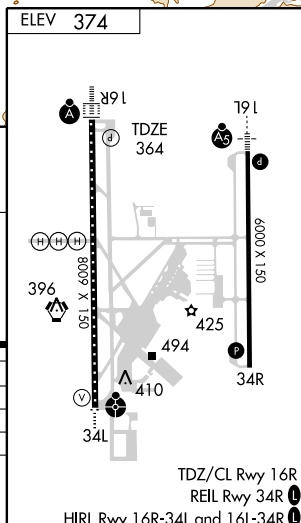
MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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Remain within 10 NM 2500 GS 3.00° TCH 52		NDB I-EUG 6.2 1908 2000		1000 	5000 230°	EUG R-205 112.9	VAUGHN
		4.2 NM		MM 541	IM 459	364 MSL	
		1570'		930'		950'	
CATEGORY	A	B	C	D			
S-ILS 16R	CAT IIIA		RVR 07				
S-ILS 16R	CAT IIIB		RVR 06				
S-ILS 16R	CAT IIIC		NA				

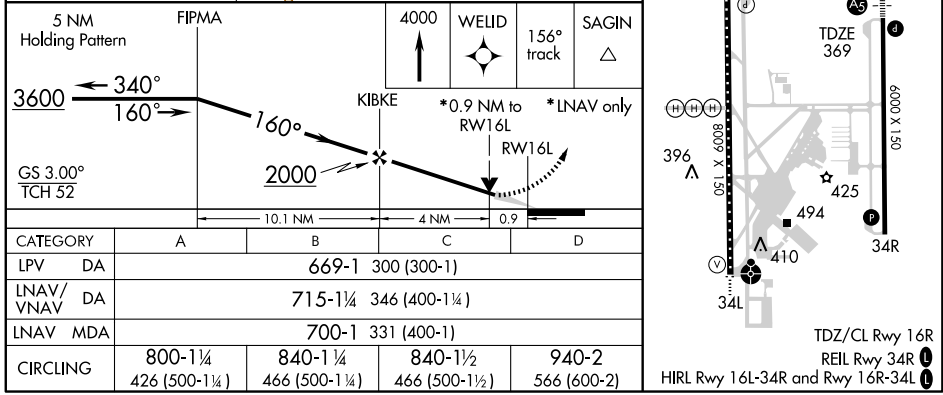
CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



RNAV (GPS) RWY 16L

EUGENE/MAHLON SWEET FIELD (EUG)

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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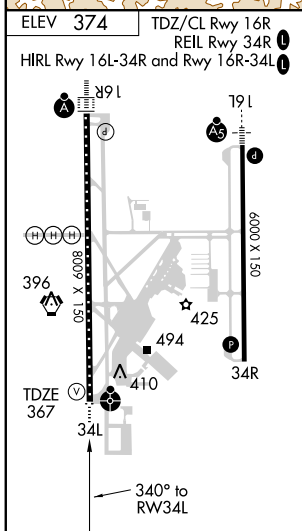
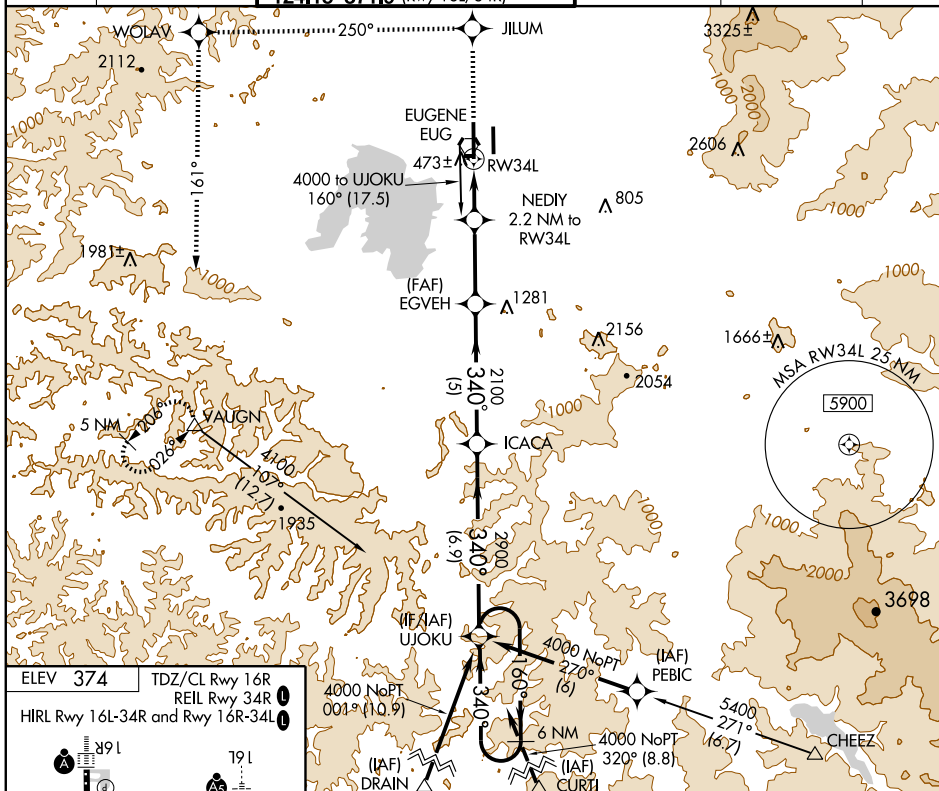


WAAS CH 45600 W34A	APP CRS 340°	Rwy Idg 8009 TDZE 367 Apt Elev 374
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RNAV (GPS) RWY 34L

EUGENE/ MAHLON SWEET FIELD (EUG)

 Inoperative table does not apply to LPV and LNAV/VNAV. Baro-VNAV NA below -15°C (5°F). DME/DME RNP-0.3 NA.		 ODALS	MISSED APPROACH: Climb to 4000 direct JILUM and via 250° track to WOLAV and 161° track to VAUGHN and hold.			
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)		GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95



4000 ↑ JILUM	250° track ✦	WOLAV ✦	161° track ✦	VAUGN △	ICACA	UJOKU	6 NM Holding Pattern
<p>*LNAV only</p> <p>NEDIY</p> <p>EGVEH</p> <p>160° → 160°</p> <p>← 340° 4000</p> <p>340° 2900</p> <p>1120 2100</p> <p>1.1 NM 1.1 NM 3 NM 5 NM 6.9 NM</p> <p>GS 3.00°</p> <p>TCH 54</p>							
CATEGORY	A		B		C		D
LPV DA	617/40 250 (300-¾)						
LN/V DA	744/60 377 (400-1¼)						
LN/V MDA	760/40 393 (400-¾)						760/60 393 (400-1¼)
CIRCLING	800-1¼ 426 (500-1¼)	840-1¼ 466 (500-1¼)	840-1½ 466 (500-1½)	940-2 566 (600-2)			

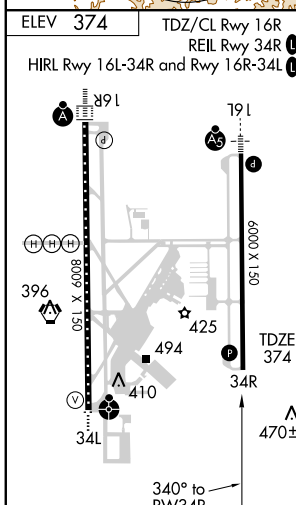
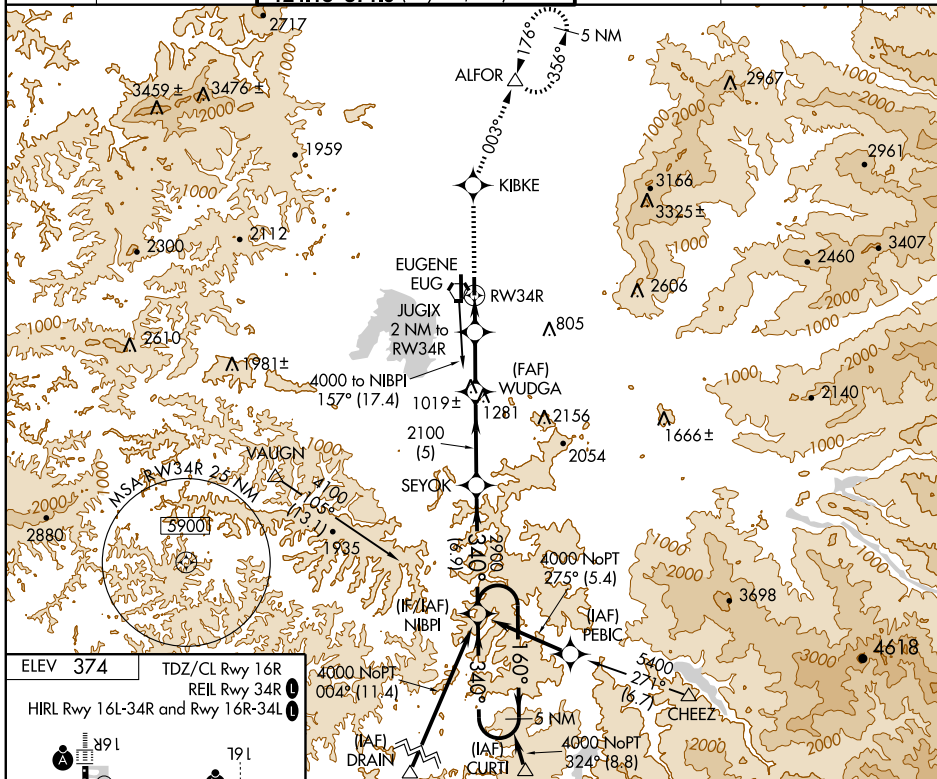
WAAS CH 81900 W34B	APP CRS 340°	Rwy Idg 6000 TDZE 374 Apt Elev 374
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RNAV (GPS) RWY 34R
EUGENE/MAHLON SWEET FIELD (EUG)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
A DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct KIBKE and via track 003° to ALFOR and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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3000 ↑	KIBKE ✧	trk 003°	ALFOR △	WUDGA SEYOK NIBPI 5 NM Holding Pattern			
*LNAV only *1.1 2 NM to RW 34R RW34R 1060* 1.1 NM 0.9 NM 3.2 NM 5 NM 6.9 NM				340° 2900 160° 4000 340° GS 3.00° TCH 50			
CATEGORY	A		B		C		D
LPV DA			658-1		284 (300-1)		
LNAV/DA VNAV			796-1½		422 (500-1½)		
LNAV MDA	760-1 386 (400-1)					760-1¼ 386 (400-1¼)	
CIRCLING	800-1 426 (500-1)		840-1 466 (500-1)		840-1½ 466 (500-1½)		940-2 566 (600-2)

VORTAC EUG 112.9 Chan 76	APP CRS 168°	Rwy Idg 8009 TDZE 363 Apt Elev 374
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VOR/DME or TACAN RWY 16R

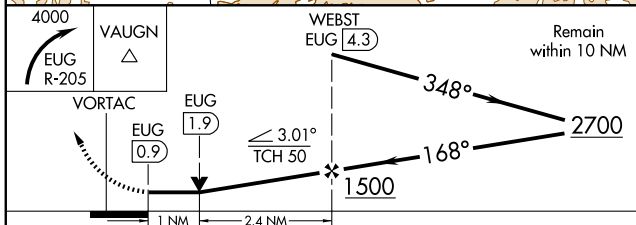
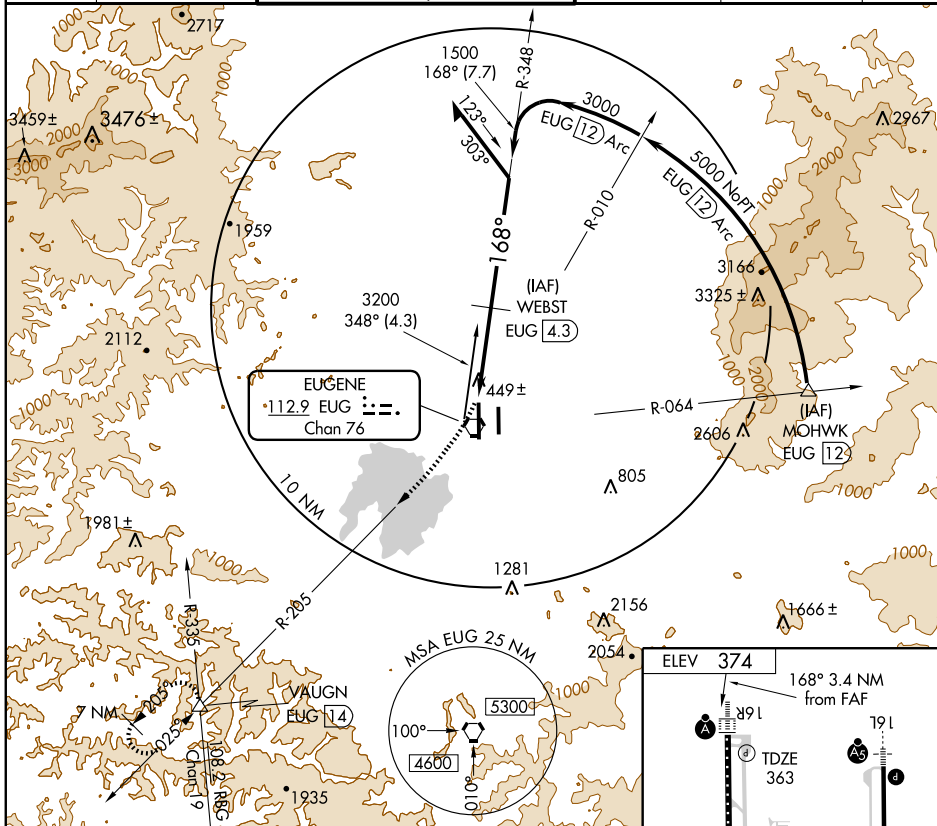
EUGENE/MAHLON SWEET FIELD (EUG)

T For inoperative MALS, increase S-16R Cat D visibility to RVR 6000.

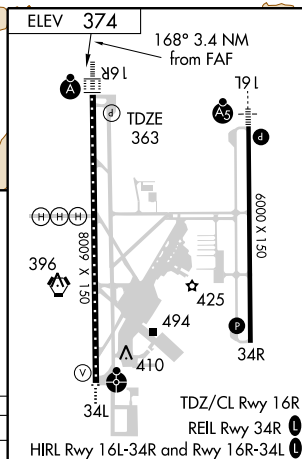


MISSED APPROACH: Climbing right turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

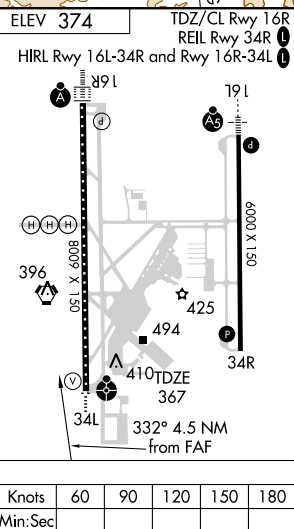
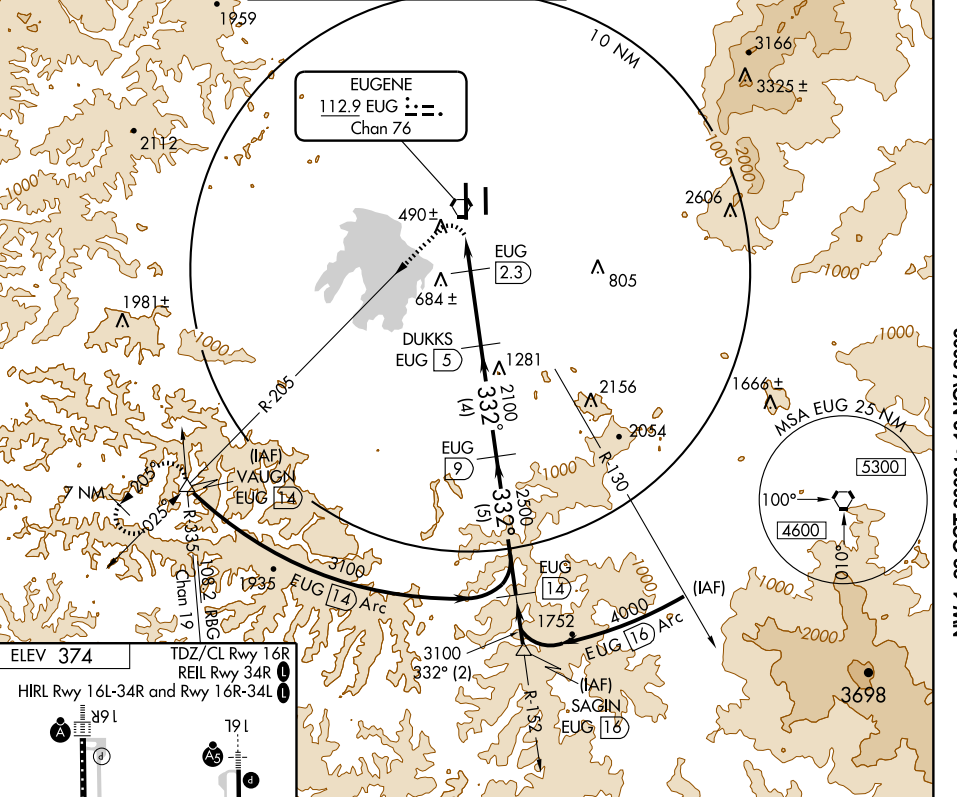
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	720/24 357 (400-½)			720/50 357 (400-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



VORTAC EUG 112.9 Chan 76		APP CRS 332°	Rwy Idg TDZE Apt Elev	8009 367 374	ODALS 		MISSED APPROACH: Climbing left turn to 4000 via EUG R-205 to VAUGHN/14 DME and hold.		
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)			GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95		



4000 VAUGHN EUG R-205		VGSI and descent angles not coincident			EUG 14
DUKKS EUG 5		EUG 9			3100
VORTAC EUG 1		EUG 2.3			2500
3.49° TCH 54		2100			Procedure Turn NA
1040		2.7 NM			5 NM
CATEGORY	A	B	C	D	
S-34L	760/40 393 (400-¾)			760/60 393 (400-1¼)	
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)	

NW-1, 22 OCT 2009 to 19 NOV 2009

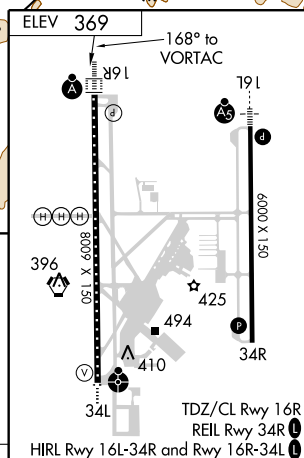
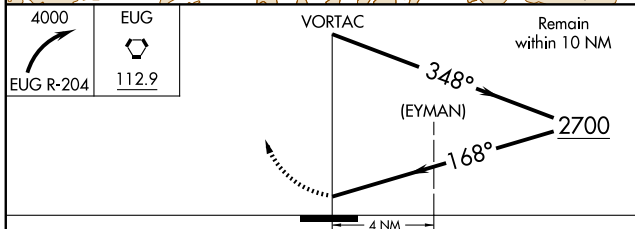
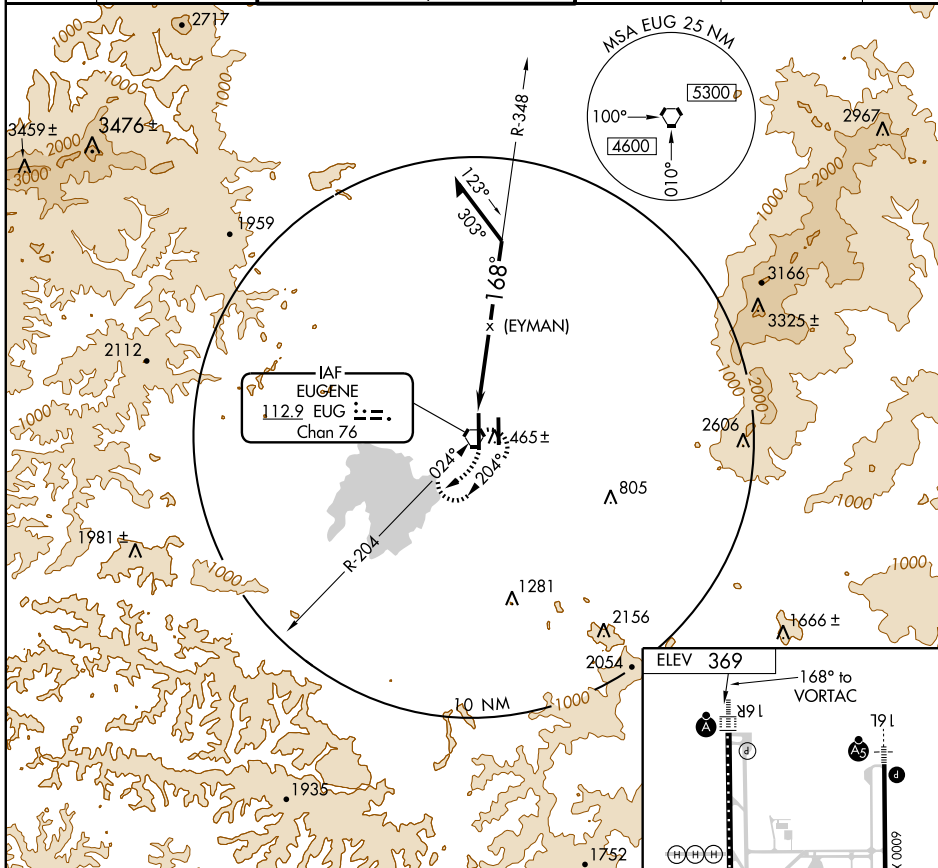
VORTAC EUG 112.9 Chan 76	APP CRS 168°	Rwy Idg TDZE Apt Elev	N/A N/A 369
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VOR or GPS-A
EUGENE/MAHLON SWEET FIELD (EUG)

T	A
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MISSED APPROACH: Climbing right turn to 4000 via EUG R-204, then direct EUG VORTAC and hold.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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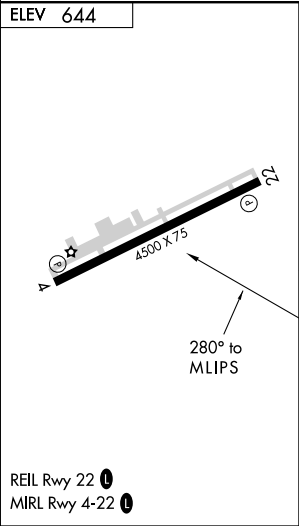
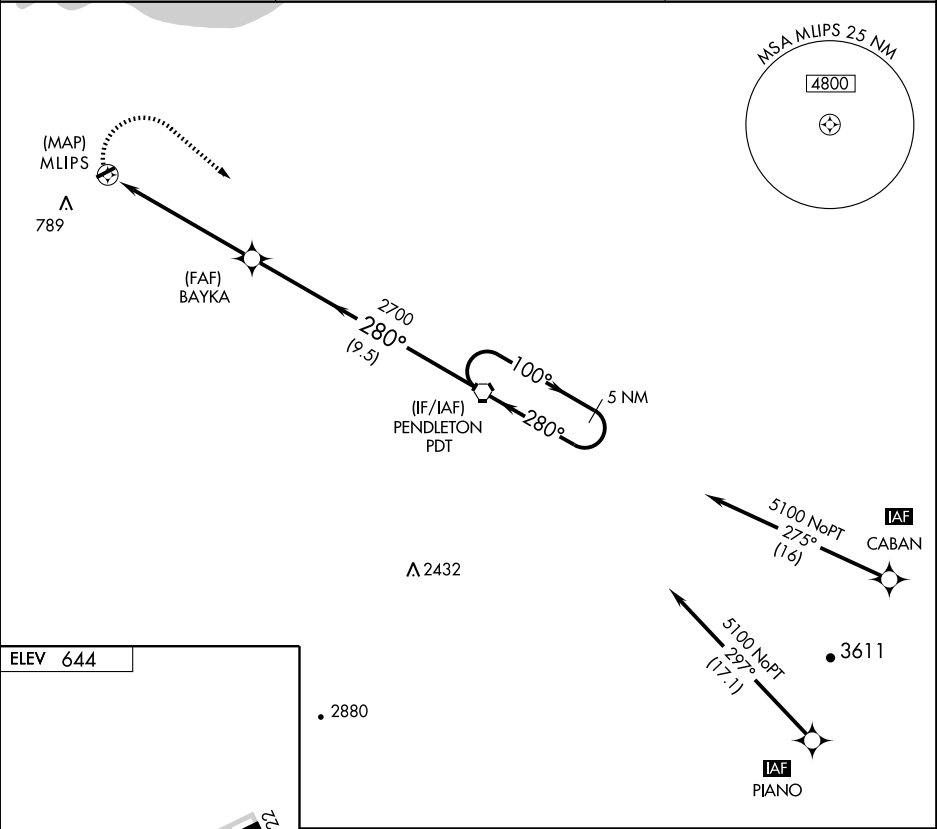
CATEGORY	A	B	C	D						
CIRCLING	1200-1	1200-1¼	1200-2½	1200-2¾	Knots	60	90	120	150	180
	831 (900-1)	831 (900-1¼)	831 (900-2½)	831 (900-2¾)	Min:Sec					






























































































































































































































RNAV(GPS)-B
HERMISTON MUNI (HRI)

APP CRS 280°	Rwy Idg TDZE Apt Elev	N/A N/A 644
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GPS or RNP-0.3 Required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climbing right turn to 4000 direct PDT VORTAC and hold.
NA IAF ARM APPROACH MODE PRIOR TO IAF.	

ASOS 135.225	CHINOOK APP CON ★ 133.15 379.15	UNICOM 122.8 (CTAF) 0
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				4 NM Holding Pattern	
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VORTAC PDT 114.7 Chan 94	APP CRS 280°	Rwy Idg TDZE Apt Elev	N/A N/A 644
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VOR/DME-A
HERMISTON MUNI (HRI)

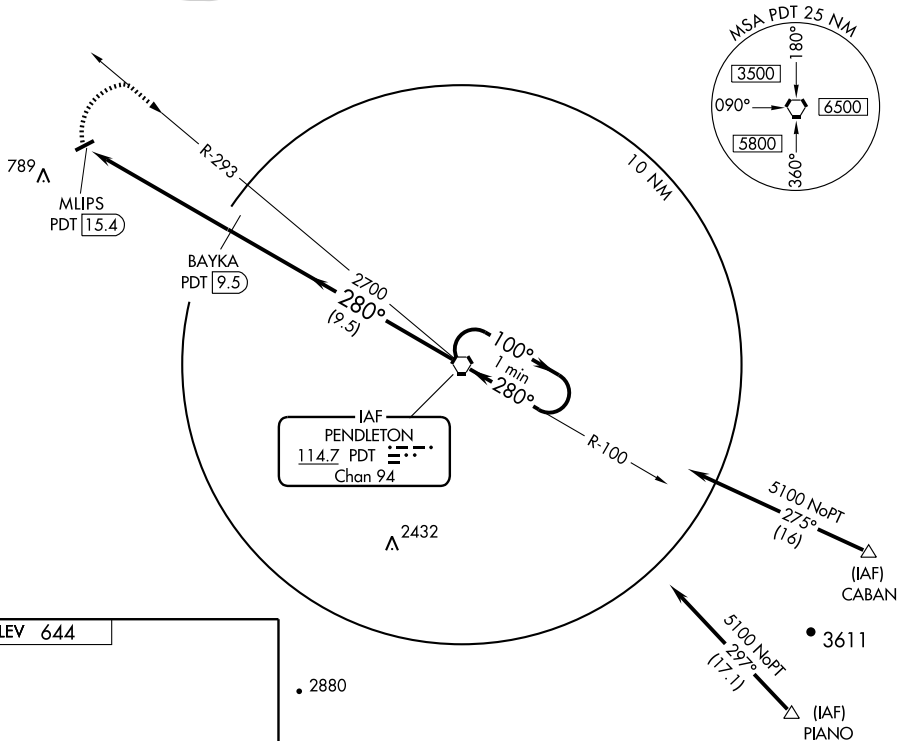


MISSED APPROACH: Climbing right turn to 4000 via PDT R-293 to PDT VORTAC and hold.

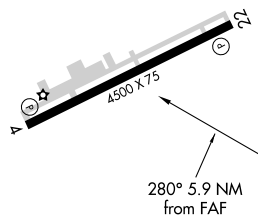
ASOS
135,225

CHINOOK APP CON ★
133.15 379.15

UNICOM
122.8 (CTAF) **L**

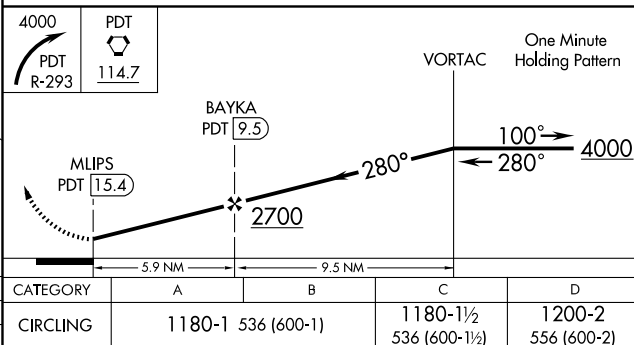


NW-1. 22 OCT 2009 to 19 NOV 2009



REIL Rwy 22 **L**
MIRL Rwy 4-22 **L**

Knots	60	90	120	150	180
Min:Sec					



APP CRS	Rwy Idg	4471
083°	TDZE	3669
	Apt Elev	3703

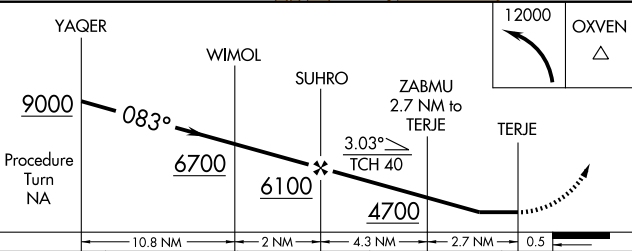
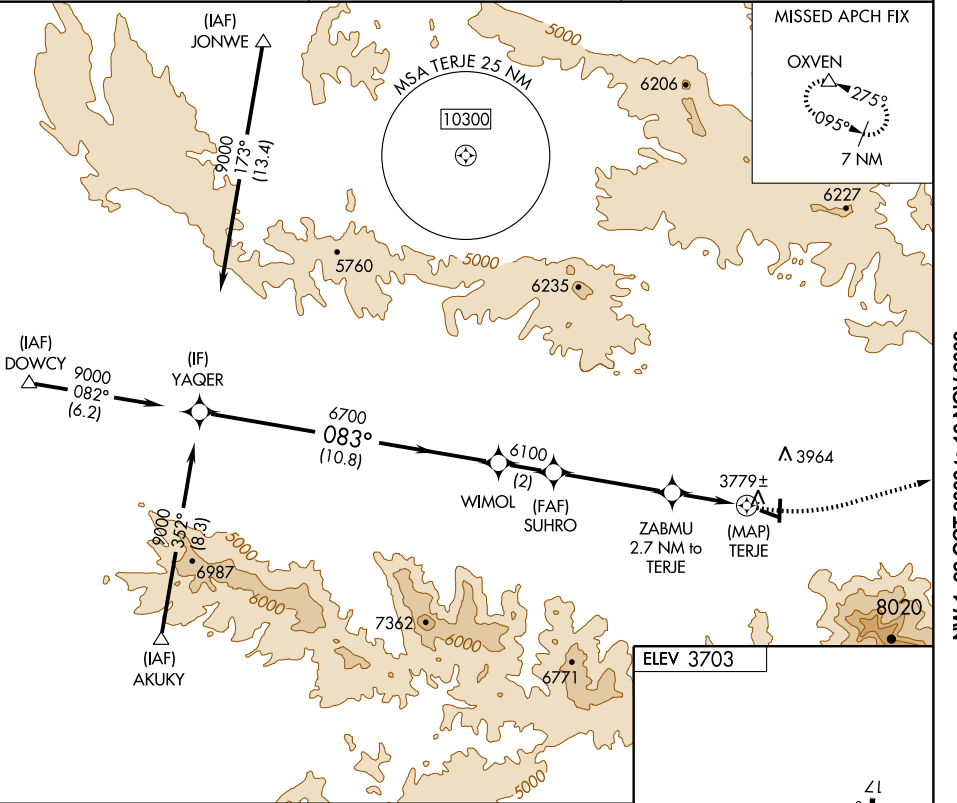
▼

▲

When local altimeter setting not received, procedure NA.
Circling NA south of Rwy 9-27. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 12000 direct OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4280-1 611 (600-1)	4280-1 611 (600-1 3/4)	4280-1 611 (600-1 3/4)	NA
CIRCLING	4280-1 577 (600-1)	4520-1 817 (900-1 1/4)	4520-2 817 (900-2 1/2)	NA

ELEV 3703

12000

OXVEN

TDZE 3669

4471 X 60

5220 X 60

3707

35

REIL Rwy 17 0
MRL Rwy 17-35 0
LIRL Rwy 9-27 0

NW-1. 22 OCT 2009 to 19 NOV 2009

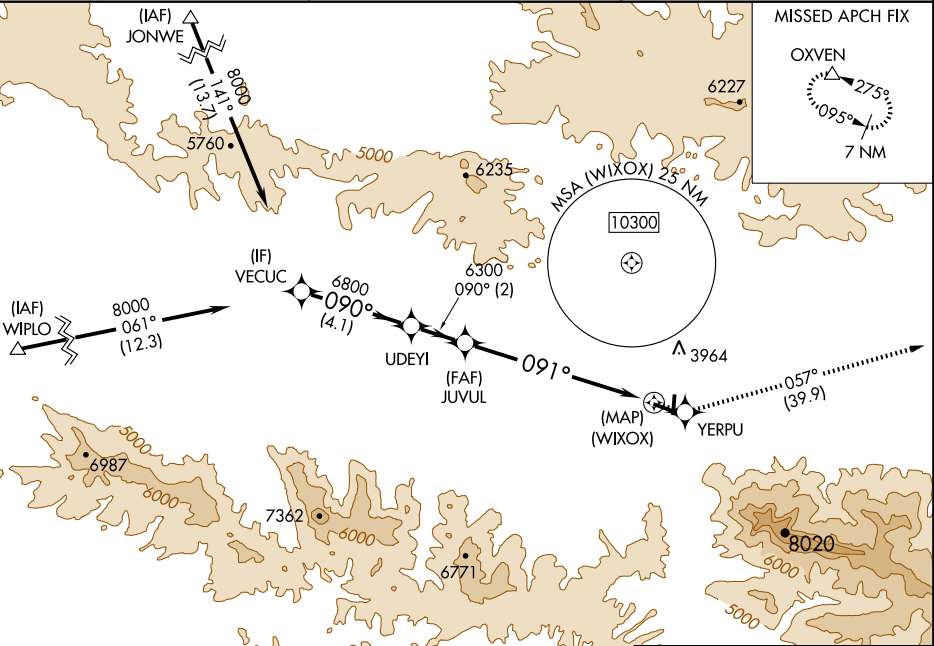
WAAS CH 73010 W09A	APP CRS 091°	Rwy ldg TDZE Apt Elev 4471 3669 3703
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RNAV (GPS) Z RWY 9

JOHN DAY/GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

▼ When local altimeter setting not received, procedure NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MISSED APPROACH: Climb to 12000 direct YERPU then via 057° track to OXVEN and hold, continue climb-in-hold to 12000.
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AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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ELEV 3703

Procedure Turn NA

GS 3.40°

TCH 54

8000

090°

6800

091°

6300

(WIXOX)

4.1 NM

2 NM

7.1 NM

12000

YERPU

057° trk

OXVEN

CATEGORY

A

B

C

D

LPV DA

4269-2 600 (600-2)

NA

091°

1.1 % UP

4471 X 60

TDZE 3669

27

35

5220 X 60

0.5 % UP

3707

REIL Rwy 17 0

MIRL Rwy 17-35 0

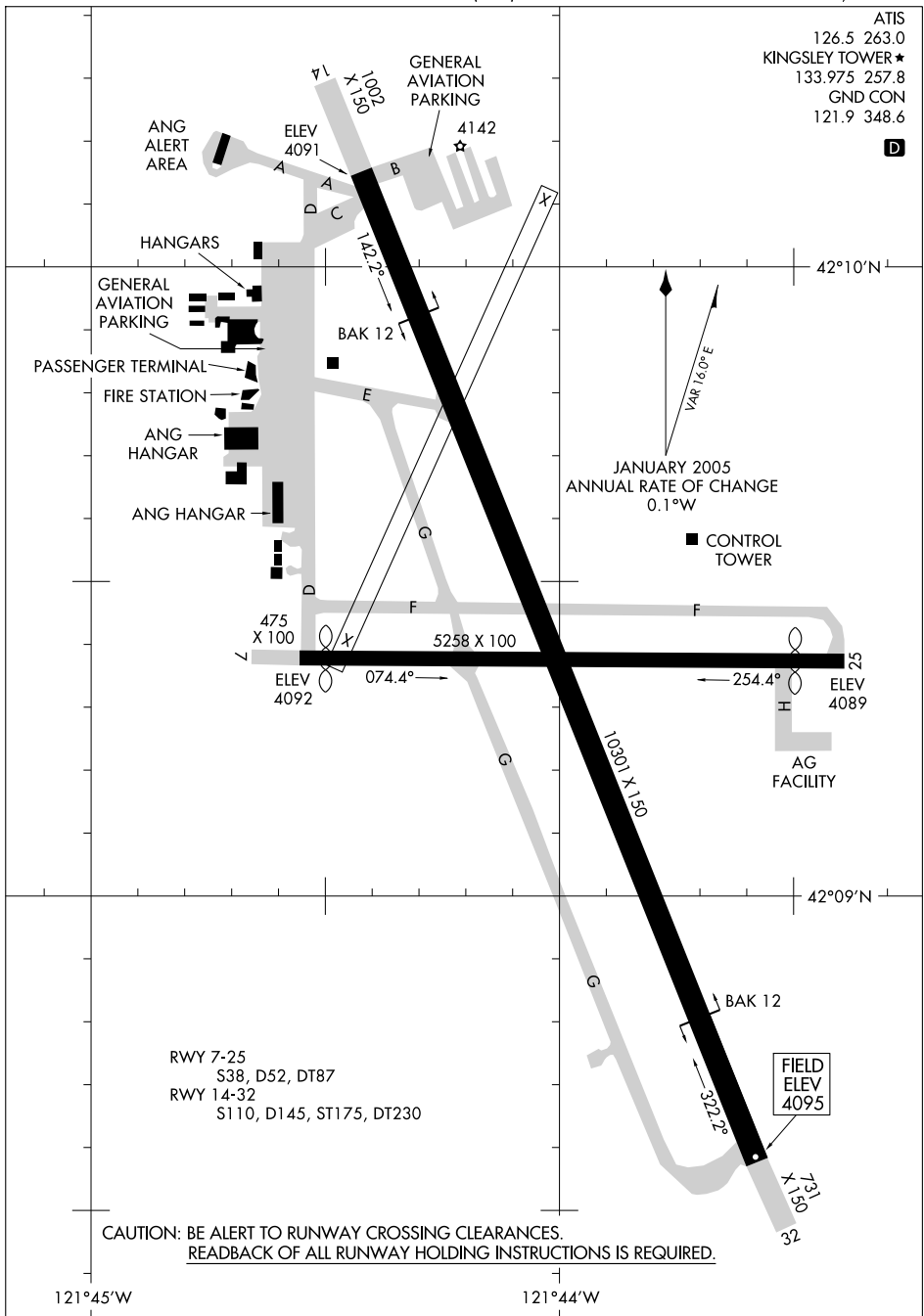
URL Rwy 9-27 0

NW-1. 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

AL-473 (FAA)

KLAMATH FALLS, OREGON



NW-1, 22 OCT 2009 to 19 NOV 2009

LOC I-LMT 109.5	APCH CRS 321°	Rwy Idg 10,301 TDZE 4092 Arpt Elev 4095
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JAL-473 [USAF]

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

▼ * Category E circling NE of Rwy 14-32 not authorized.

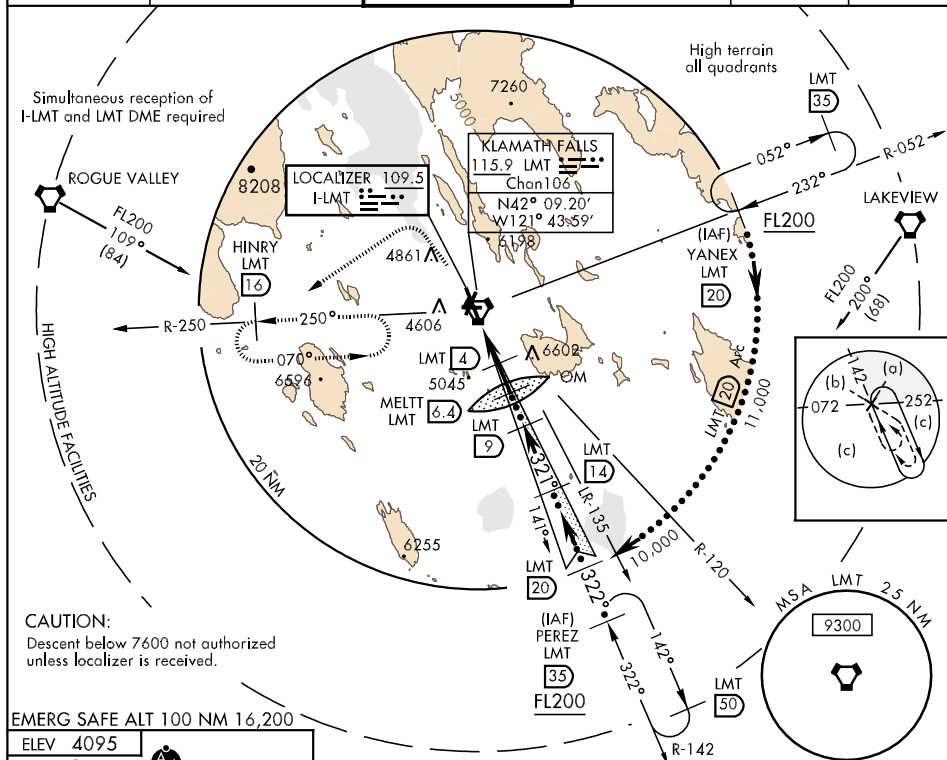
** When ALS inop, increase CAT CDE RVR to 50, vis to 1 mile.

MALSR

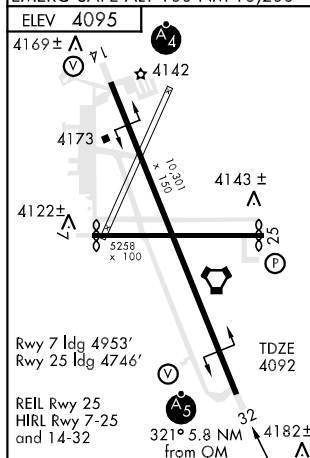


MISSED APPROACH: Climb to 5300 heading 307° then climbing left turn to 11,000 via heading 220° to intercept LMT R-250 to HINRY/16 DME and hold.

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS	ASR/PAR
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EMERG SAFE ALT 100 NM 16,200



	5300	11,000	HINRY LMT R-250 16	Intcp Lczt 14	R-142 20
	Hdg 307°	Hdg 220°			
			MELTT OM 6.4		
			6038		
			5200 LOC	6100 LOC	6600 LOC
			3.4 NM	2.4 NM	
CATEGORY	C	D	E		
S-ILS 32	4292/24	200	(200-½)		
S-LOC 32	4500/40	408 (500-¾)	4500/50	408 (500-1)	
CIRCLING *	4980-2¾	5000-3	5500-3	1408 (1500-3)	
S-PAR 32 **	4345/24	250	(300-½)	GS 3.0°	

KLAMATH FALLS, OREGON

42° 09'N-121° 44'W

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

VORTAC LMT
115.9
Chan **106**

APCH CRS
134°

Rwy ldg **10,301**
TDZE
4088
Arpt Elev **4095**

JAL-473 [USAF]

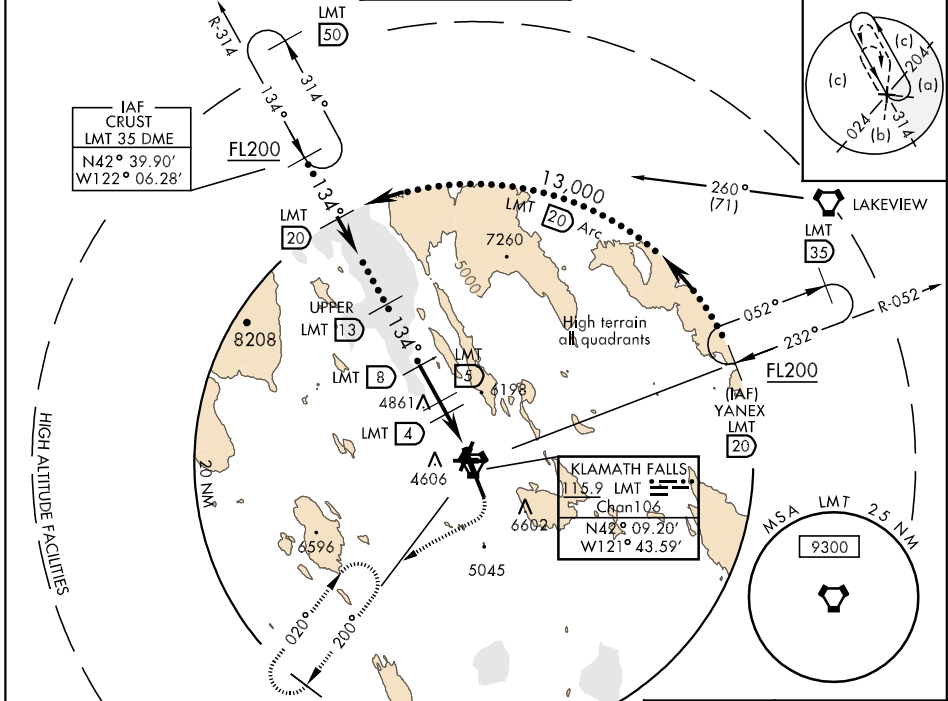
KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

V * Category E circling NE of Rwy 14-32 not authorized.
** When ALS inop, increase vis to 1 mile.

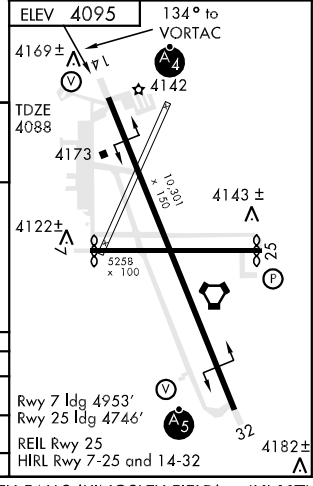


MISSED APPROACH: Climb straight ahead to 5000 then climbing right turn to 10,000 via LMT R-200 to RANDD and hold.

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS	ASR/PAR
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EMERG SAFE ALT 100 NM 16,200			
CATEGORY	C	D	E
S-14	4680-1½ 592 (600-1½)	4680-1¾ 592 (600-1¾)	
CIRCLING *	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)	5500-3 1408 (1500-3)
S-PAR 14 **	4391-¾	300 (300-¾)	GS 3.0 °



NW-1, 22 OCT 2009 to 19 NOV 2009

VORTAC LMT
115.9
Chan **106**

APCH CRS
328°

Rwy Idg **10,301**
TDZE
Arpt Elev **4095**

JAL-473 [USAF]

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

▼ **When ALS inop, increase CAT CDE vis ¼ mile.

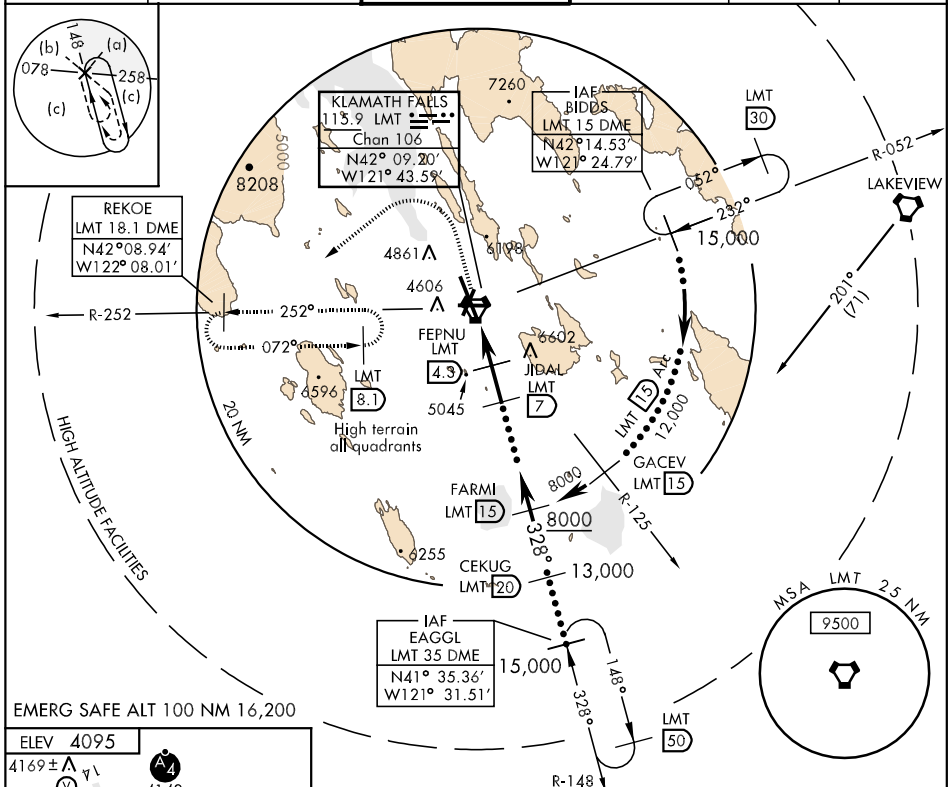
** Category E circling NE of Rwy 14-32 not authorized.

***When ALS inop, increase CAT CDE RVR to 50, vis to 1 mile.

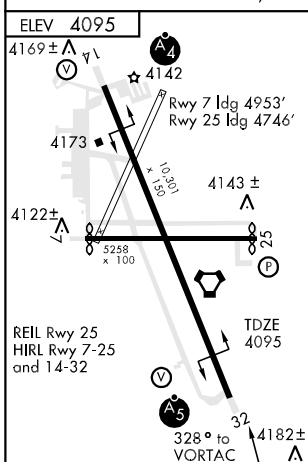


MISSED APPROACH: Climb to 5000 then climbing left turn to 10,000 to intercept LMT R-252 to REKOE/LMT 18.1 DME and hold, continue climb in hold to 10,000.

ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS	ASR/PAR
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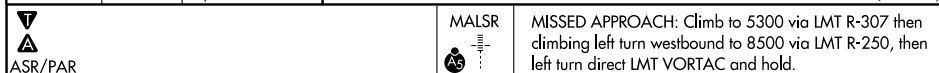
EMERG SAFE ALT 100 NM 16,200



5000	10,000	REKOE LMT 18.1	Procedure turn NA VGSI and descent angle not coincident	FARM LMT 15	8000
VORTAC	HEGEX 1	FEPNU 4.3	JIDAL 7	6300	
4	3.3 NM	2.7 NM	3.0 NM		
CATEGORY	C	D	E		
S-32 *	4440/40 345 (400-¾)	4440/50 345	(400-1)		
CIRCLING **	4980-2¾ 885 (900-2¾)	4980-3 885 (900-3)	5600-3 1505 (1600-3)		
S-PAR 32 ***	4345/24	250	(300-½)	GS 3.0°	

LOC I-LMT <u>109.5</u>	APP CRS 321°	Rwy Idg 10301 TDZE 4092 Apt Elev 4092
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ILS or LOC RWY 32

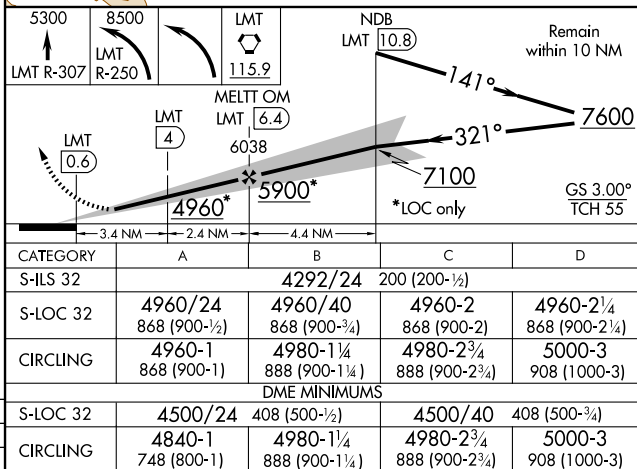
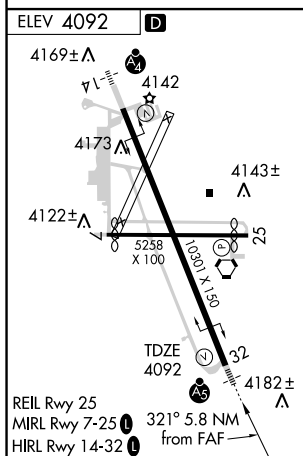
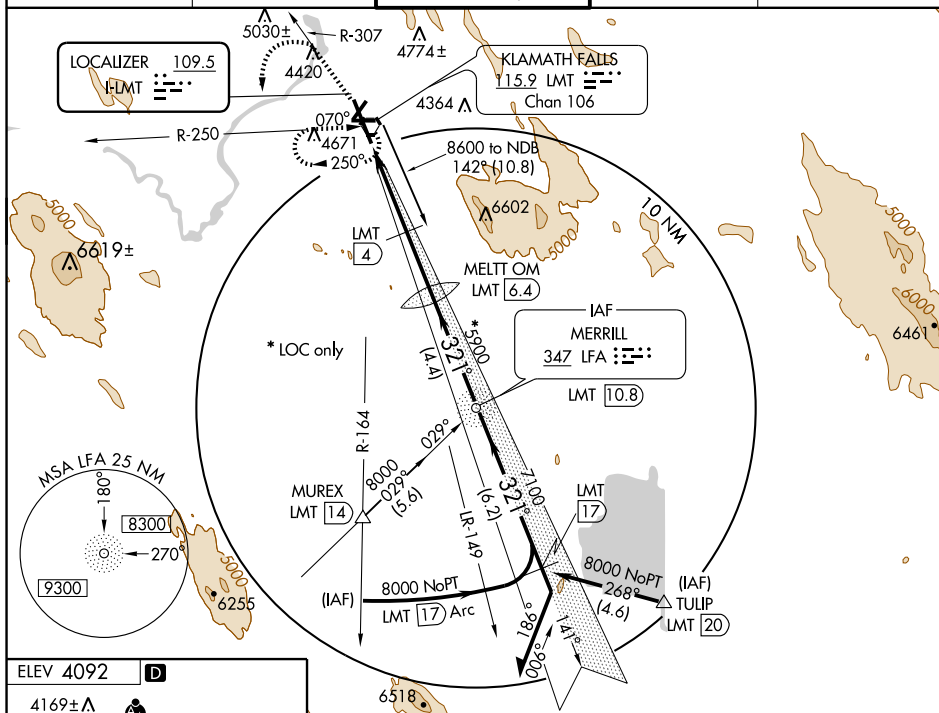


ATIS
126.5 263.0

KINGSLEY APP CON ★
123.675 270.8

KINGSLEY TOWER ★
133-975 (CTAF) 257.8

GND CON
121.9 348.6

UNICOM
122.95

KINGSLEY THREE DEPARTURE

SL-473 (FAA)

KLAMATH FALLS (LMT)
KLAMATH FALLS, OREGON

ATIS

126.5 263.0

GND CON

121.9 348.6

KINGSLEY TOWER ★

133.975 257.8

KINGSLEY DEP CON ★

123.675 270.8

EUGENE

112.9 EUG

Chan 76

N44°07.25'-W123°13.37'

L-1, H-1

DESCHUTES

117.6 DSD

Chan 123

N44°15.17'-W121°18.21'

L-13, H-1

ROSEBURG

108.2 RBG

Chan 19

N43°10.95'-W123°21.14'

L-1, H-1

ROGUE VALLEY

113.6 OED

Chan 83

N42°28.78'-W122°54.78'

L-2, H-3

FORT JONES

109.6 FJS

Chan 33

N41°26.98'-W122°48.39'

L-2

10000 or
assigned altitude

LAKEVIEW

112.0 LKV

Chan 57

N42°29.57'-W120°30.43'

L-11, H-3

KLAMATH FALLS

115.9 LMT

Chan 106

N42°09.19'-W121°43.65'

L-2, H-3

10000 or
assigned altitude

RED BLUFF

115.7 RBL

Chan 104

N40°05.93'-W122°14.18'

L-2, H-3

MUSTANG

117.9 FMG

Chan 126

N39°31.88'-W119°39.37'

L-9, H-3

NOTE: Chart not to scale.

NOTE: This SID requires a minimum climb of 325' per NM to 8500' or 4500' ceiling and 3 mile visibility to clear obstruction. (813 FPM at 150K, 1083 FPM 200K, 1354 FPM at 250K).

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14 and 32: Climb via runway heading until leaving 4700'. Then via radar vector headings to assigned route.

LOST COMMUNICATIONS

If not in contact with Seattle Center after reaching 10000' or assigned altitude, if lower; continue climb to assigned altitude and:

Take-off runway 14: Climbing right turn direct LMT VORTAC, thence via (assigned route).

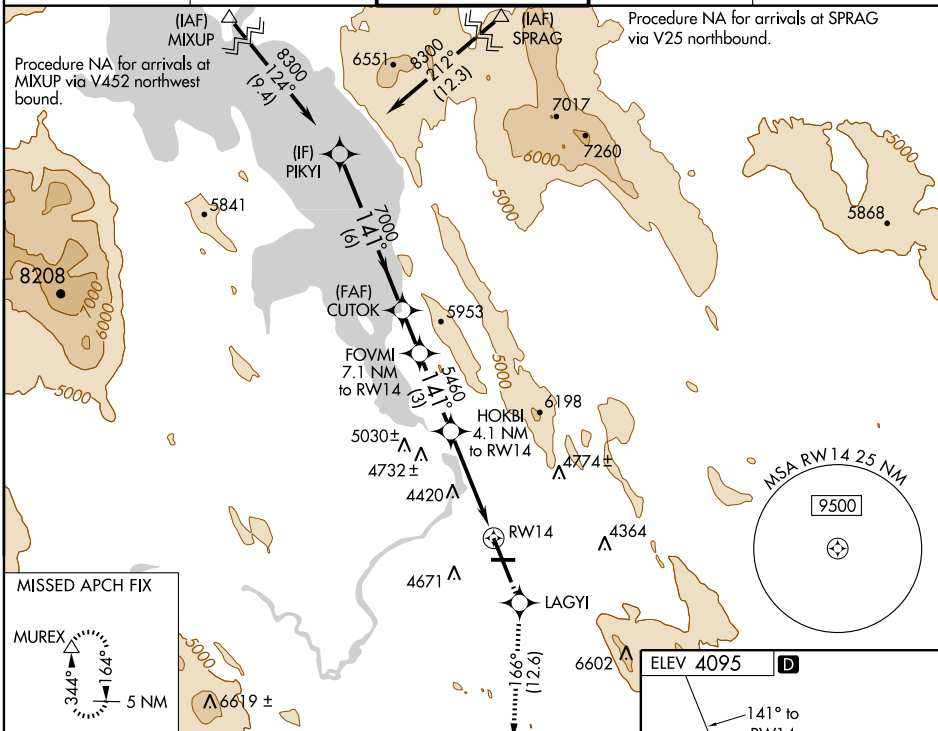
Take-off runway 32: Climbing left turn direct LMT VORTAC, thence via (assigned route).

RNAV (GPS) RWY 14

KLAMATH FALLS (LMT)

MALSF

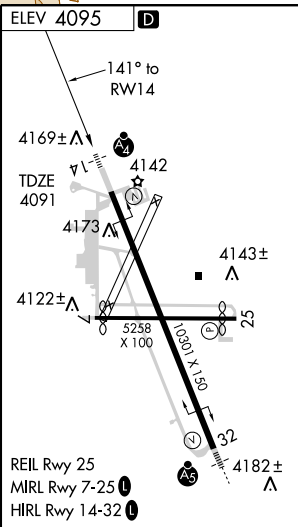
MISSED APPROACH: Climb to 9200 direct LAGYI and via 166° track to MUREX and hold, continue climb-in-hold to 9200.

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009

Figure 1: Example of a 2D plot of a flight path. The plot shows a flight path starting from a point labeled 'Turn NA' and proceeding through several waypoints: PIKYI, CUTOK, FOVMI, HOKBI, and RW14. The path is defined by a series of connected line segments. Key data points include: PIKYI at 8300, CUTOK at 7000, FOVMI at 7.1 NM to RW14, HOKBI at 4.1 NM to RW14, and RW14 at 2.5 NM to RW14. The path is labeled with 'GS 3.00° TCH 50' and 'MUREX'. The plot also includes a scale bar indicating distances of 6 NM, 1.7 NM, 3 NM, 1.6 NM, and 2.5 NM. A note '* LNAV only' is present.

CATEGORY	A	B	C	D
LPV DA	4635-2 544 (600-2)			
LNAV/ VNAV DA	NA			
LNAV MDA	4920- ³ / ₄ 829 (900- ³ / ₄)	4920-1 ¹ / ₄ 829 (900-1 ¹ / ₄)	4920-2 ¹ / ₂ 829 (900-2 ¹ / ₂)	4920-2 ³ / ₄ 829 (900-2 ³ / ₄)
CIRCLING	4920-2 825 (900-2)	4980-2 885 (900-2)	4980-2 ³ / ₄ 885 (900-2 ³ / ₄)	5060-3 965 (1000-3)



VORTAC LMT	APP CRS	Rwy Idg	10301
115.9	134°	TDZE	4091
Chan 106		Apt Elev	4095

VOR/DME or TACAN RWY 14

KLAMATH FALLS (LMT)

Cat E circling NA northeast of Rwy 14-32.
For inoperative MALSF increase S-14 Cat E visibility to 2¾,
inoperative table does not apply to Cats B, C, and D.
Visibility reduction by helicopters NA.

MALSF

MISSED APPROACH: Climb to 4900 then
climbing right turn to 9200 via LMT R-164
to MUREX/14 DME and hold, continue
climb-in-hold to 9200.

ATIS	KINGSLEY APP CON★	KINGSLEY TOWER★	GND CON	UNICOM
126.5 263.0	123.675 270.8	133.975 (CTAF) 0 257.8	121.9 348.6	122.95

CATEGORY	A	B	C	D	E
S-14	4860-3¼ 769 (800-¾)	4860-1¼ 769 (800-1¼)	4860-2¼ 769 (800-2¼)	4860-2½ 769 (800-2½)	769 (800-2½)
CIRCLING	4860-1 765 (800-1)	4980-1¼ 885 (900-1¼)	4980-2¾ 885 (900-2¾)	5060-3 965 (1000-3)	5600-3 1505 (1600-3)

REIL Rwy 25
MIRL Rwy 7-25
HIRL Rwy 14-32

NW-1, 22 OCT 2009 to 19 NOV 2009

AL-473 (FAA)

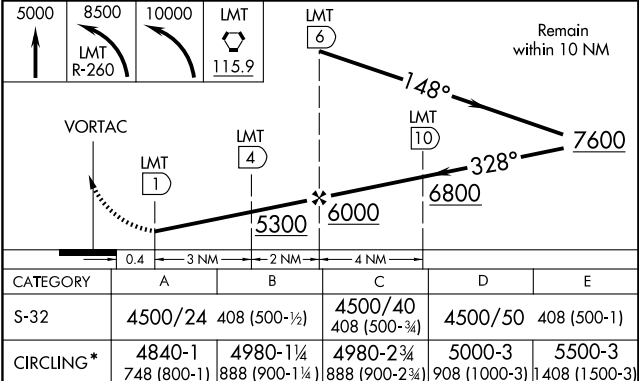
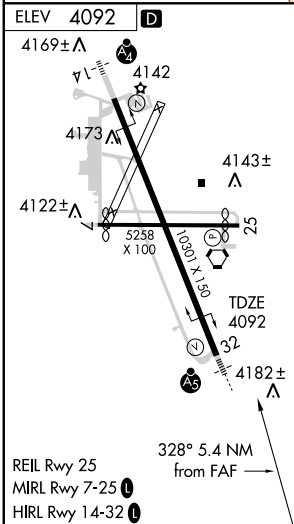
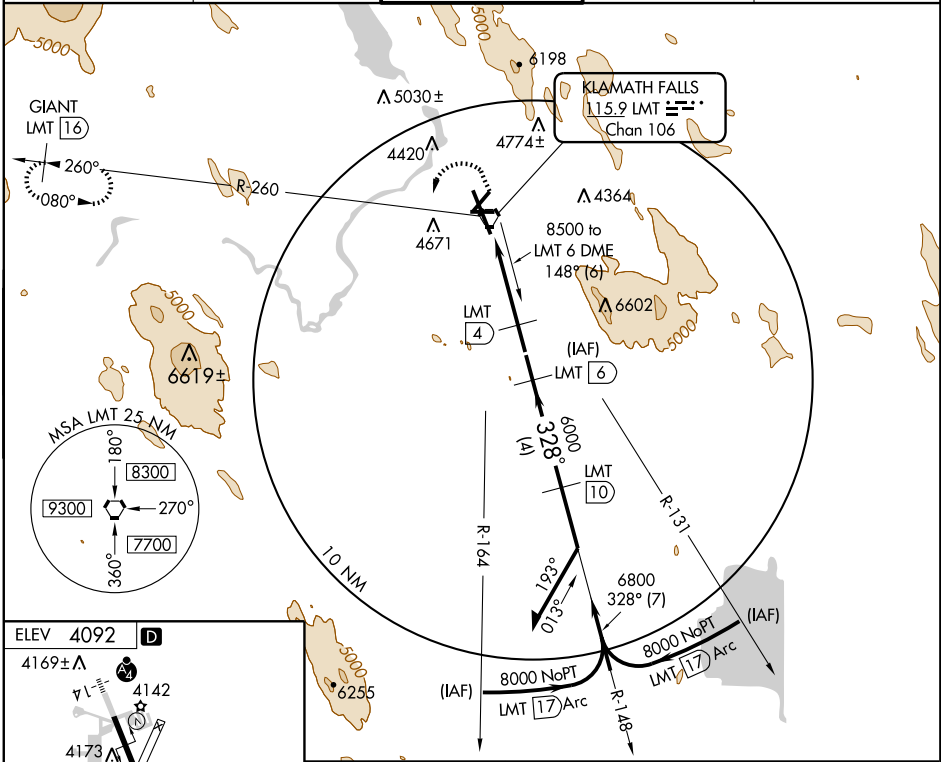
VOR/DME or TACAN RWY 32
KLAMATH FALLS (LMT)

Klamath Falls (LMT)



MISSED APPROACH: Climb to 5000 then climbing left turn to 8500 via LMT R-260 then climbing left turn to 10000 direct LMT VORTAC. (TACAN aircraft continue climb on R-260 to 10000 to GIANT/16 DME and hold East, left turns, 260 inbound.)

ATIS 126.5 263.0	KINGSLEY APP CON★ 123.675 270.8	KINGSLEY TOWER★ 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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NW-1 22 OCT 2009 to 19 NOV 2009

VORTAC LMT <u>115.9</u> Chan 106	APP CRS 340°	Rwy Idg N/A TDZE N/A Apt Elev 4092
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VOR or GPS-B
KLAMATH FALLS (LMT)


 TASR/PAR

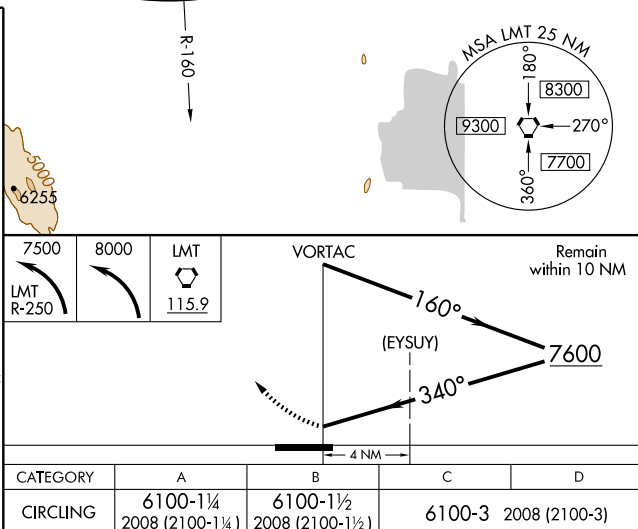
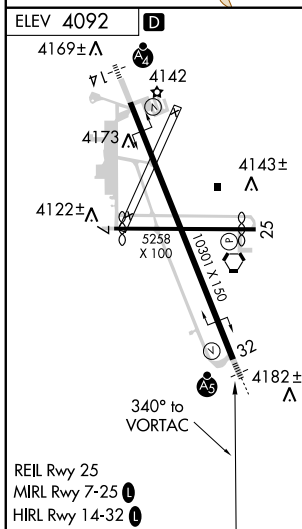
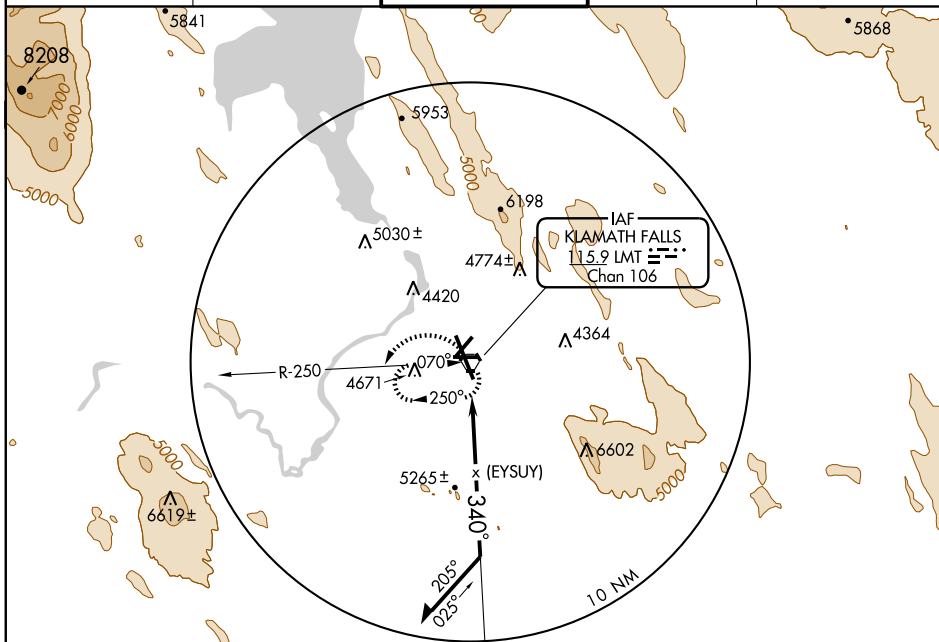
MISSED APPROACH: Climbing left turn to 7500 via LMT R-25 then climbing left turn to 8000 direct LMT VORTAC and hold.

ATIS
126.5 263.0

KINGSLEY APP CON★
123.675 270.8

KINGSLEY TOWER★
133.975 (CTAF) **L** 257.8

GND CON
121.9 348.6

UNICOM
122.95

NDB LGD	APP CRS	Rwy Idg TDZE	N/A
296	194°	Apt Elev	2717

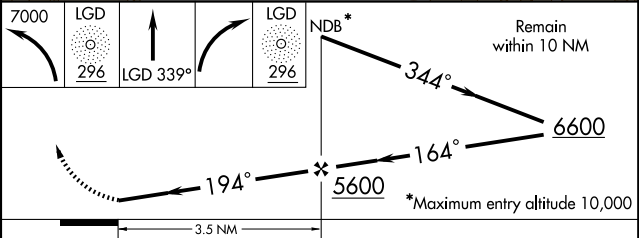
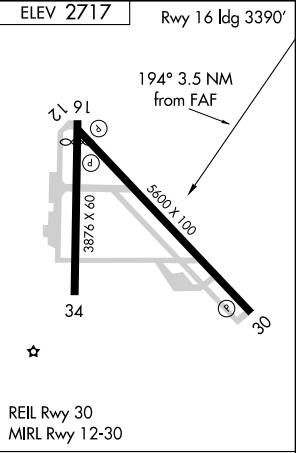
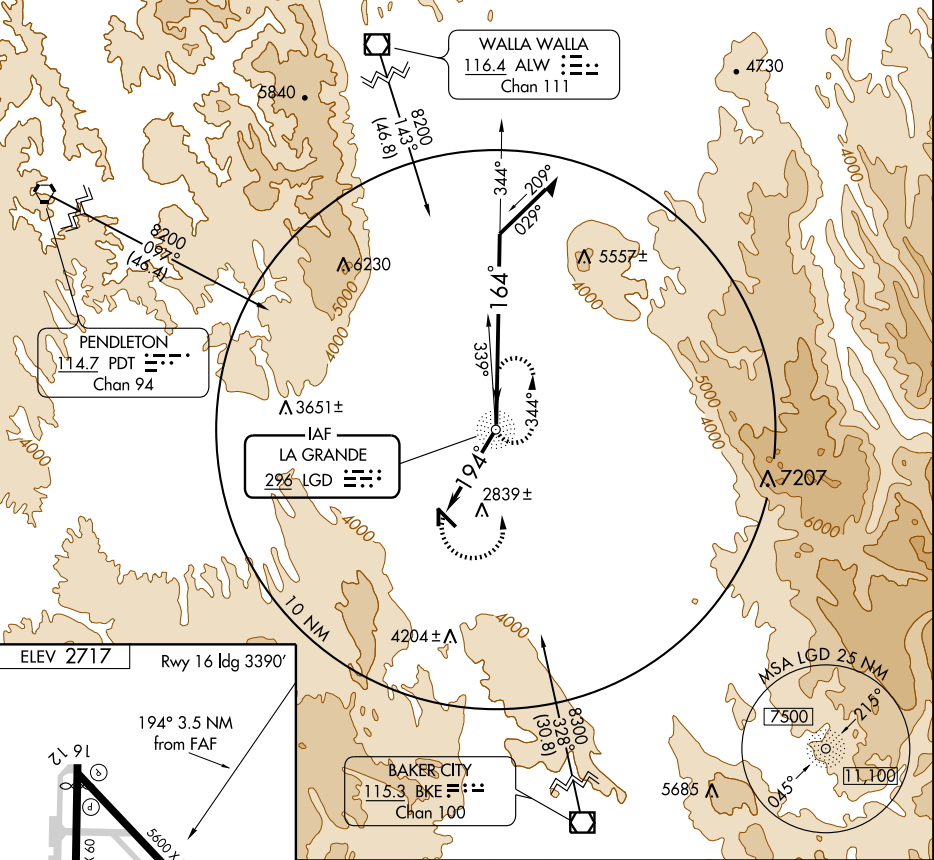
LA GRANDE/ UNION COUNTY (LGD)

▼

▲ NA

MISSED APPROACH: Climbing left turn to 7000 direct LGD NDB and 339° bearing from LGD NDB, then right turn direct LGD NDB and hold.

AWOS-3 135,075	SEATTLE CENTER 132.6 269,35	UNICOM 122.8 (CTAF)
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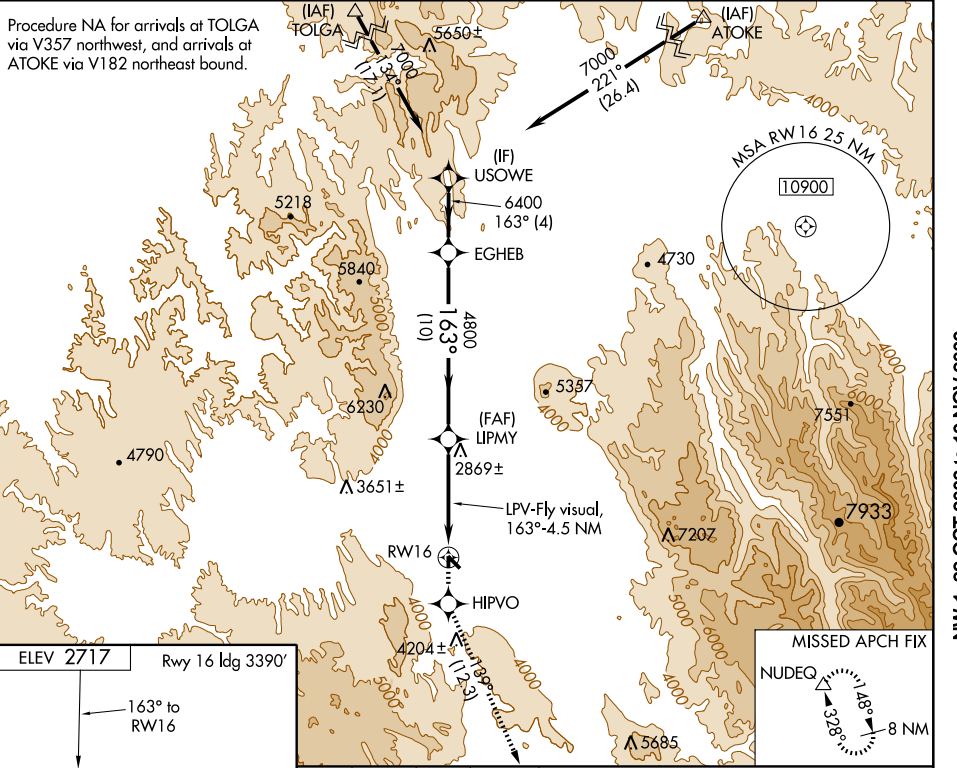


FAF to MAP 3.5 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	4360-1¼ 1643 (1700-1¼)	4360-1½ 1643 (1700-1½)	4360-3 1643 (1700-3)	NA
Min:Sec	3:30	2:20	1:45	1:24	1:10					

DME/DME RNP-0.3 NA.
If local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9000 direct HIPVO and via 139° track to NUDEQ and hold, continue climb-in-hold to 9000.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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ELEV 2717 Rwy 16 Idg 3390'		163° to RW16		TDZE 2714		3872 X 60		5600 X 100		34		30	
9000		HIPVO		139° track		NUDEQ		LIPMY		Procedure Turn NA		EGHEB	
LPV, Fly visual 163° 4.5 NM RW16		*5.3 NM to RW16		*LNAV only		7000		163°		6400		GS 3.00° TCH 35	
-5.3 NM		1 NM		10 NM		4 NM							
CATEGORY		A		B		C		D					
LPV DA		4173-2		1459 (1500-2)		4173-3		1459 (1500-3)					
LNAV/VNAV DA				NA									
LNAV MDA		4440-1¼ 1726 (1800-1¼)		4440-1½ 1726 (1800-1½)		4440-3		1726 (1800-3)					
CIRCLING				4440-6		1723 (1800-6)							

REIL Rwy 30
MRL Rwy 12-30

NW-1. 22 OCT 2009 to 19 NOV 2009

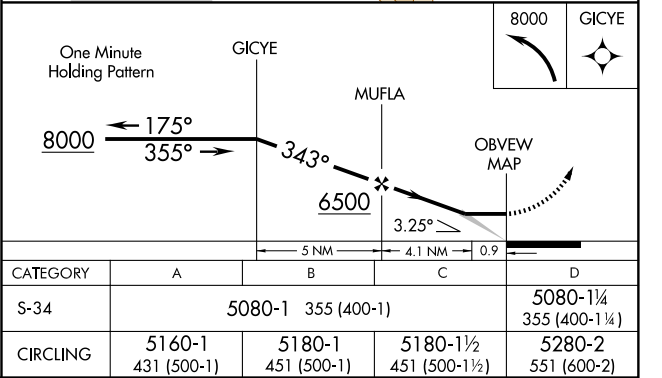
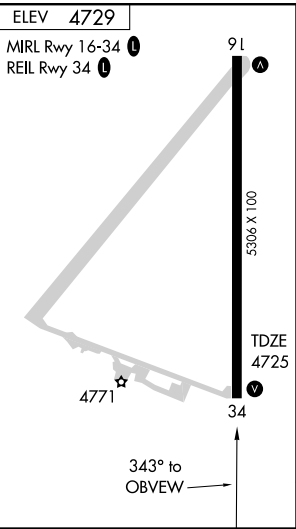
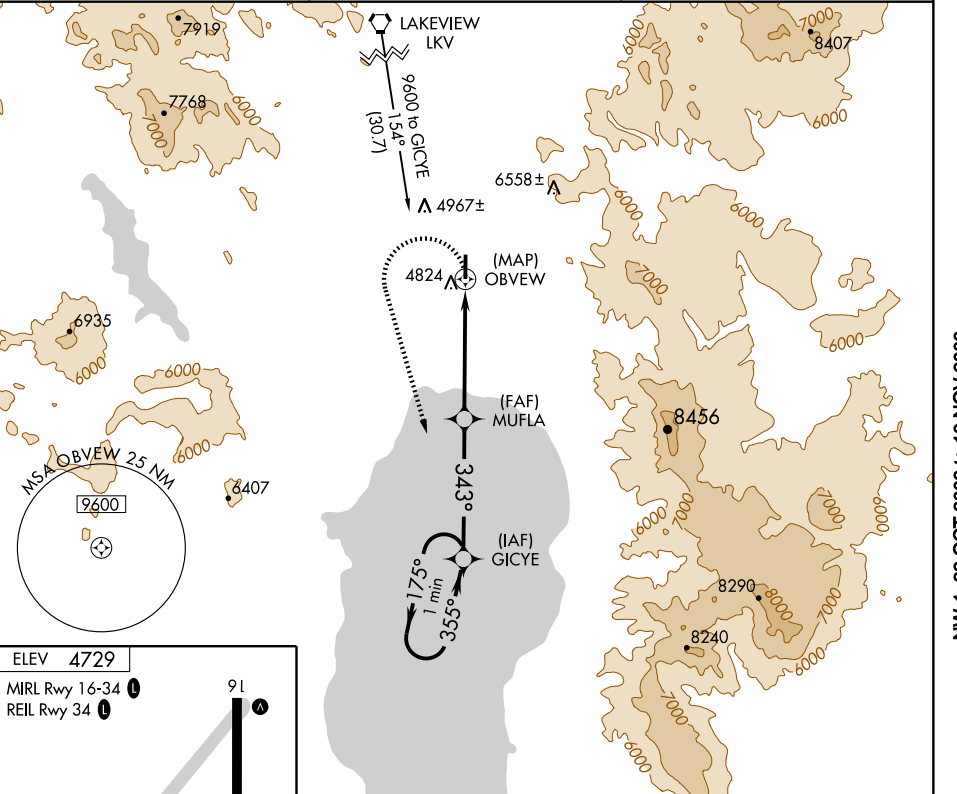
▼

NA

MISSED APPROACH:

Climbing left turn to 8000, direct GICYE WP and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF)
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VORTAC LKV 112.0 Chan 57	APP CRS 147°	Rwy Idg TDZE Apt Elev	N/A N/A 4733
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VOR/DME-A

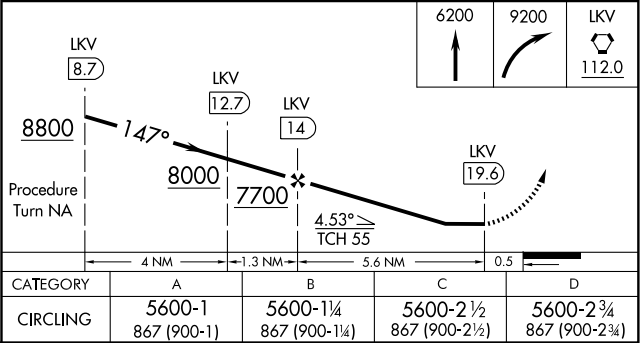
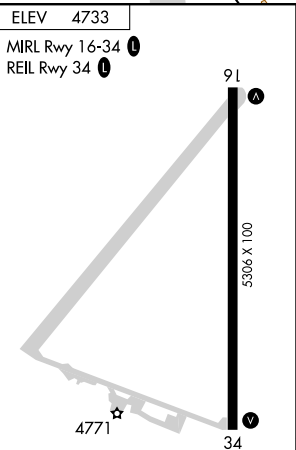
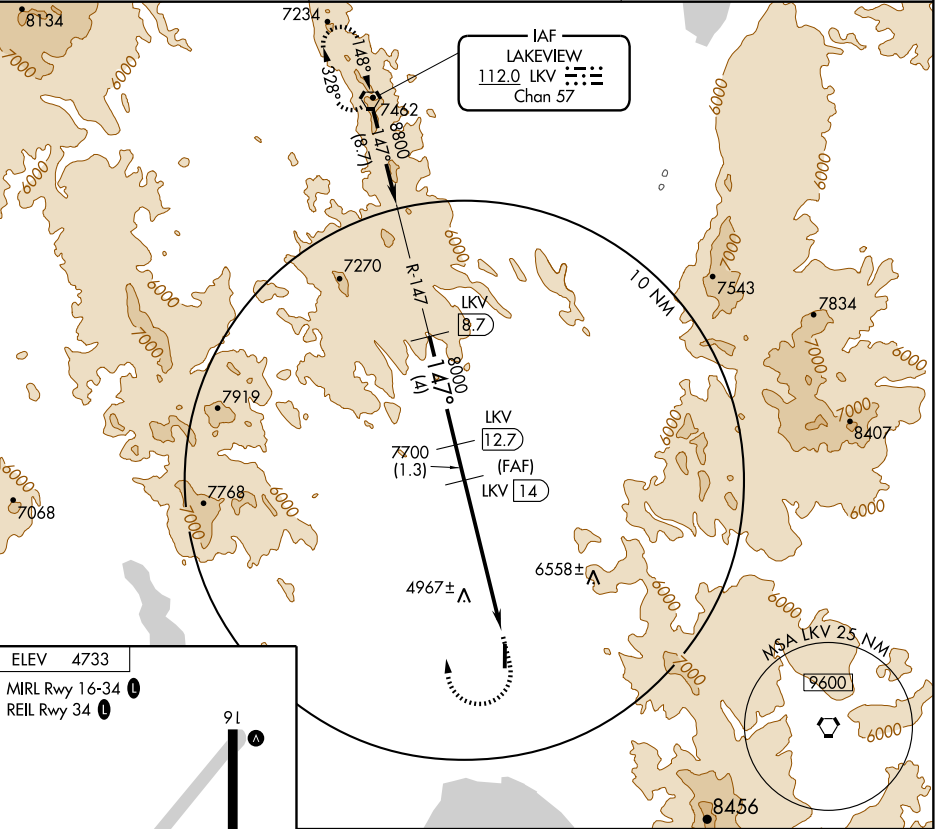
LAKEVIEW / LAKE COUNTY (LKV)

▼

▲

MISSED APPROACH: Climb to 6200 then climbing right turn to 9200 direct LKV VORTAC and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF) 0
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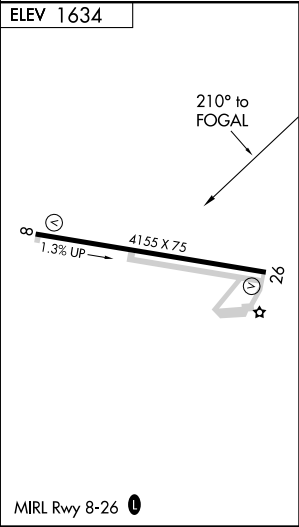
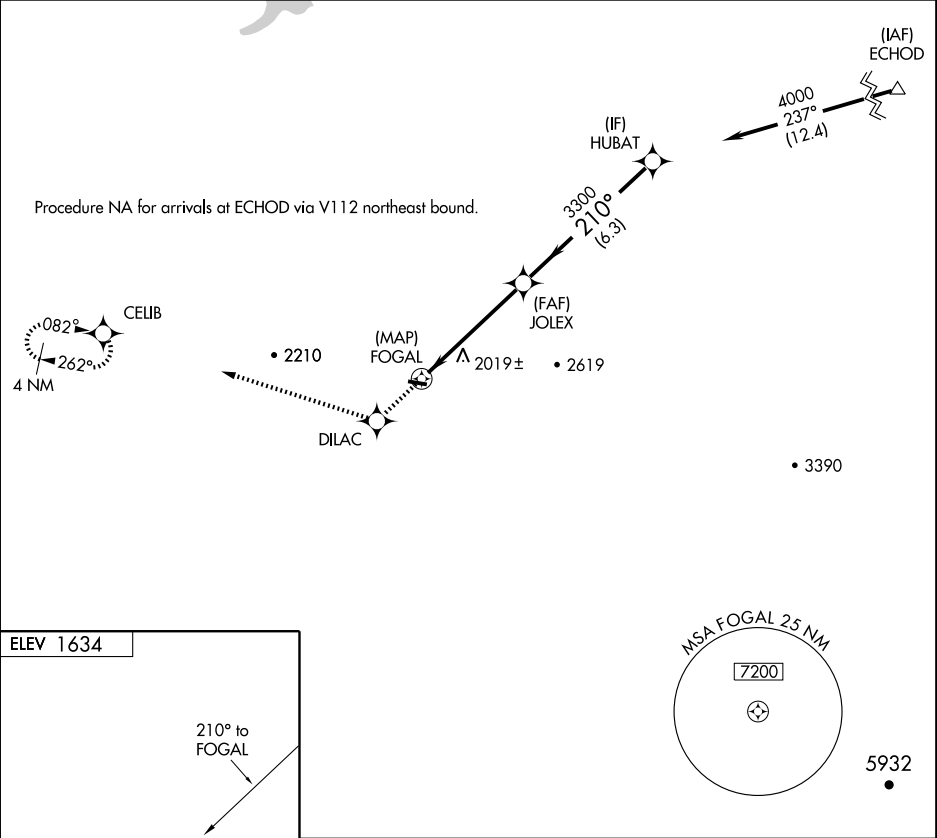
RNAV (GPS)-A
LEXINGTON (9S9)

APP CRS	Rwy Idg	N/A
210°	TDZE	N/A
	Apt Elev	1634

⚠ If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
⚠ NA Procedure NA at night.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4400 direct DILAC WP and via 271° track to CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9 0
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4400	DILAC	271° track	CELIB	HUBAT
			JOLEX	4000
	FOGAL		3300	Procedure Turn NA
	5 NM		6.3 NM	
CATEGORY	A	B	C	D
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

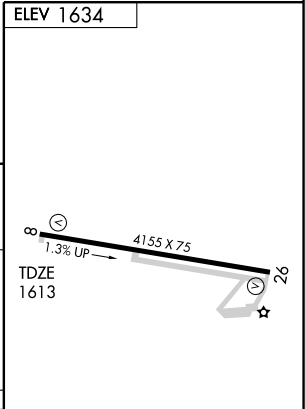
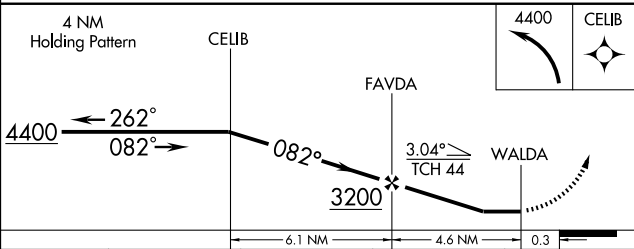
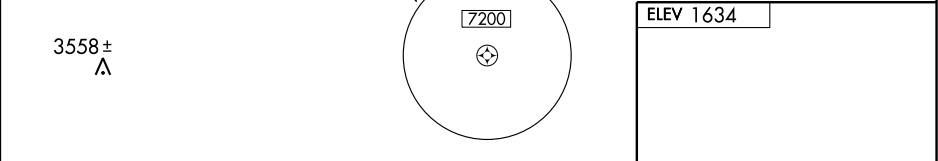
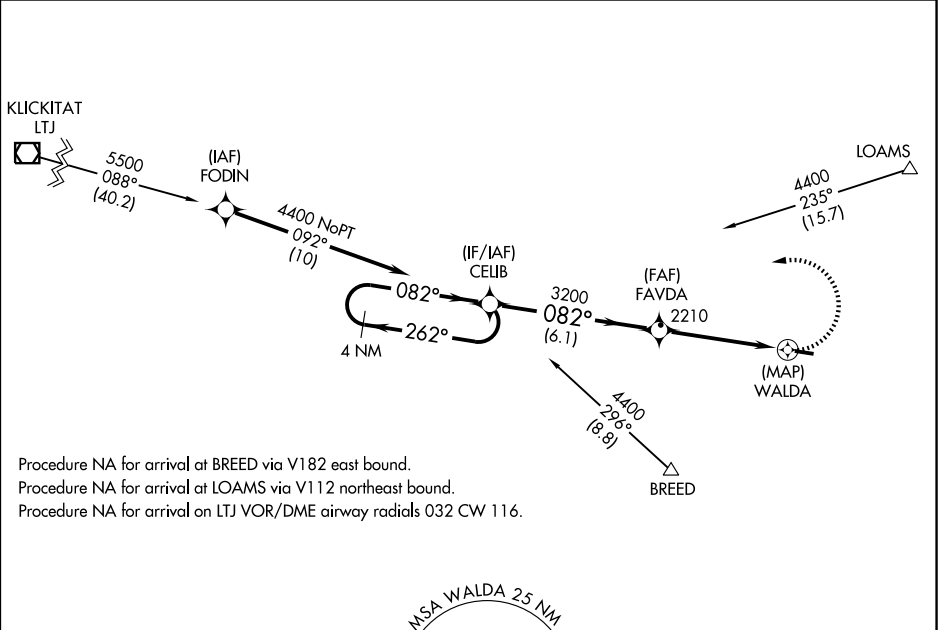
APP CRS	Rwy Idg	4155
082°	TDZE	1613
	Apt Elev	1634

RNAV (GPS) RWY 8
LEXINGTON (9S9)

NA If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
Procedure NA at night.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 4400 direct CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9
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CATEGORY	A	B	C	D
LNAV MDA	2120-1	507 (500-1)	2120-1½	507 (500-1½)
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

MIRL Rwy 8-26

APP CRS	Rwy Idg	N/A
341°	TDZE	N/A
	Apt Elev	2437

RNAV (GPS)-A

MADRAS MUNI (S33)

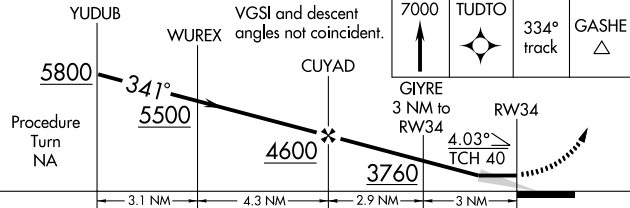
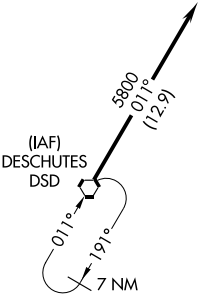
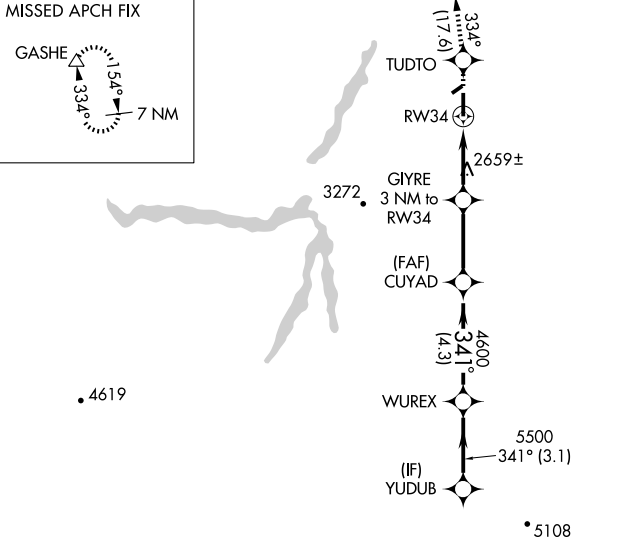
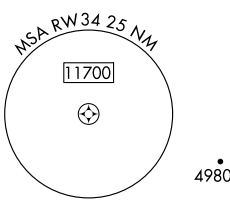
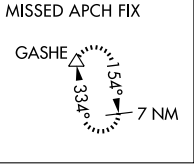
▼

▲ NA

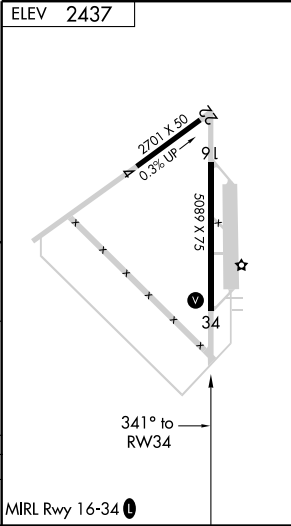
DME/DME RNP-0.3 NA.
Use Redmond altimeter setting; if not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct TUDTO and via 334° track to GASHE and hold, continue climb-in-hold to 7000.

REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	3520-1¼ 1083 (1100-1¼)	3540-1½ 1103 (1200-1½)	3600-3 1163 (1200-3)	NA



LOC I-MMV	APP CRS	Rwy Idg	5420
110.9	218°	TDZE	161
		Apt Elev	163

ILS or LOC RWY 22

MC MINNVILLE MUNI (MMV)

▼

DME Required.

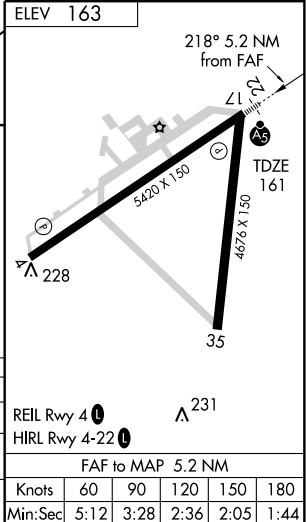
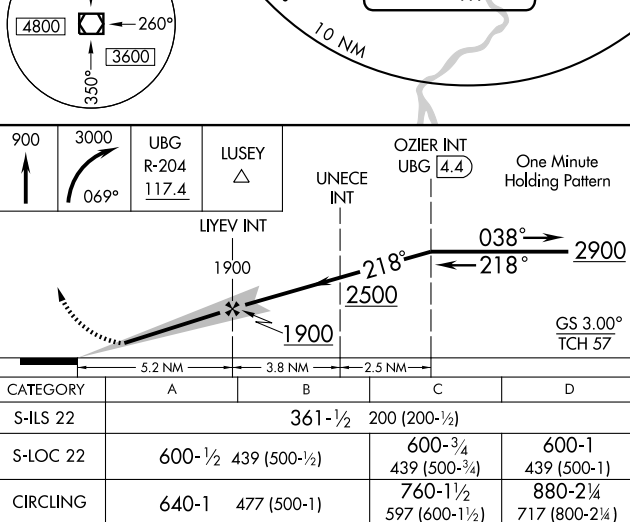
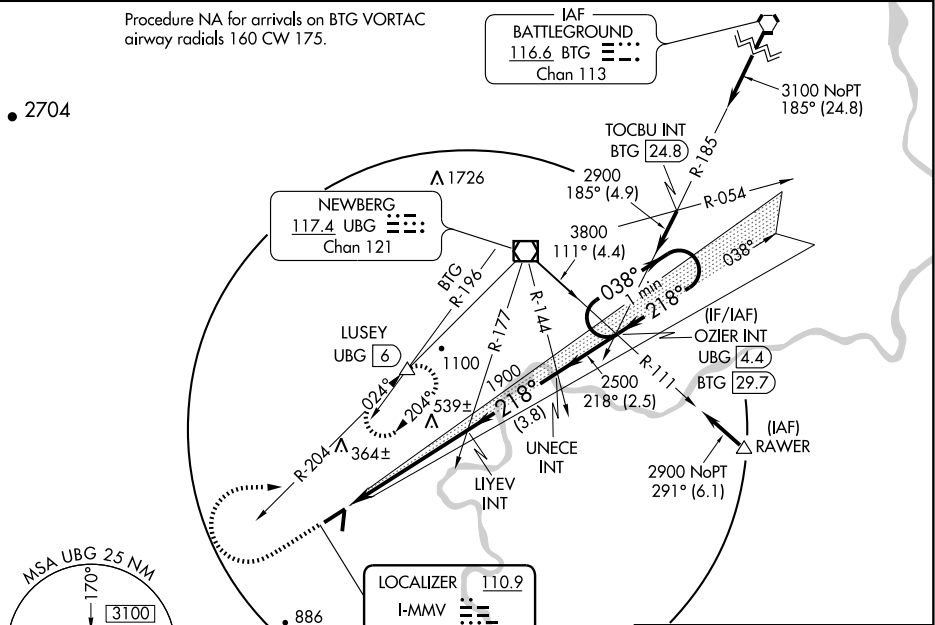
▲

When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet. Increase all visibility ¼ mile.

MALS R

MISSED APPROACH: Climb to 900 then climbing right turn to 3000 via heading 069° and UBG VOR/DME R-204 to LUSEY/UBG VOR/DME 6 DME and hold, continue climb-in-hold to 3000.

ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) 0



APP CRS	Rwy Idg	5420
038°	TDZE	161
	Apt Elev	163

RNAV (GPS) RWY 4

MC MINNVILLE MUNI (MMV)

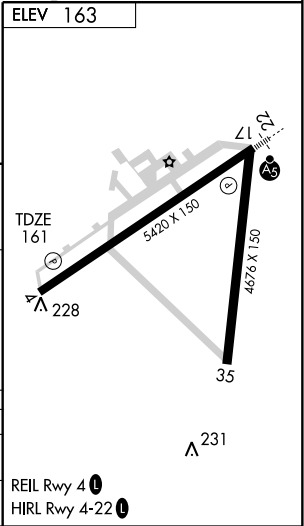
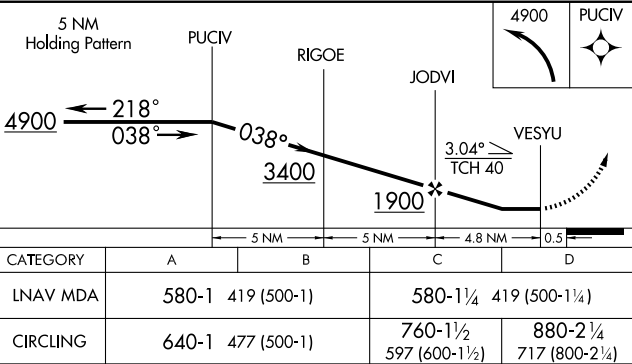
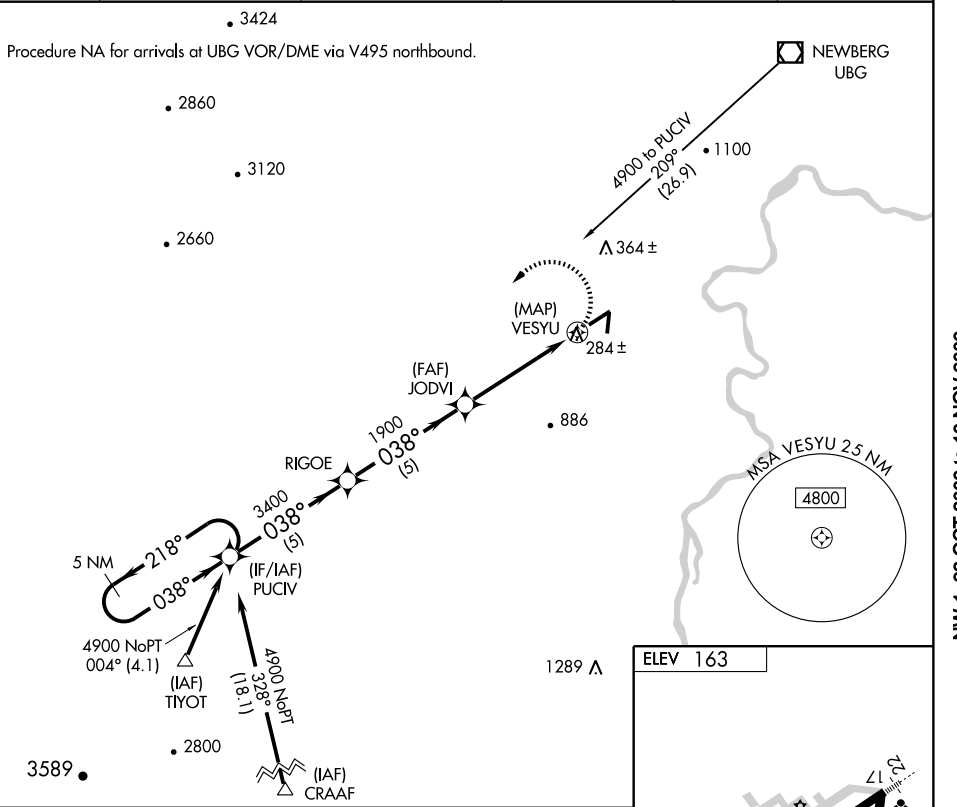
▼

▲

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4900 direct PUCIV and hold, continue climb-in-hold to 4900.

ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) ①



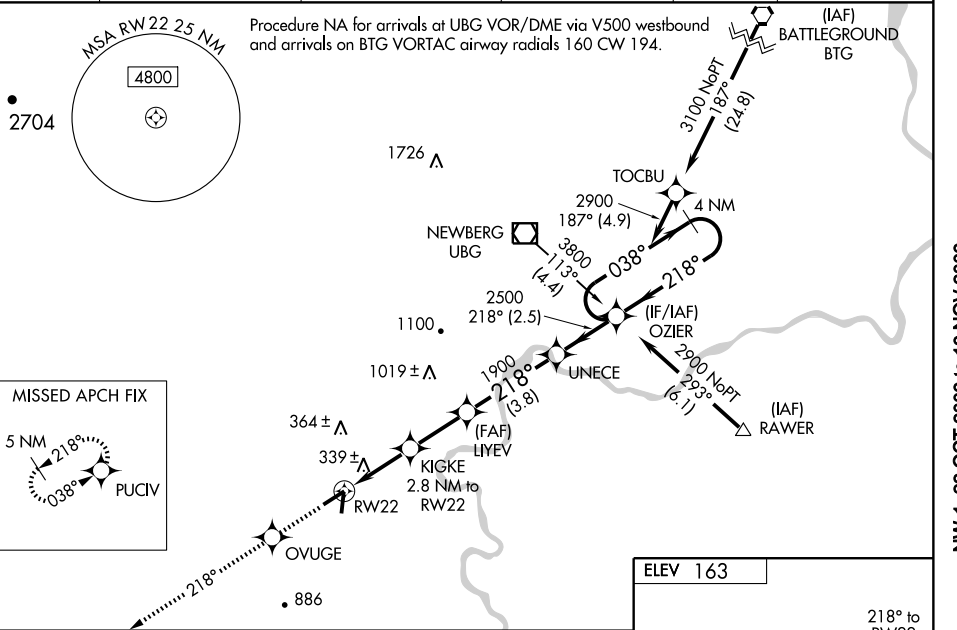
WAAS CH 50309 W22A	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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⚠ For inoperative MALSR, increase LPV all Cats. visibility to 1.
⚠ Baro-VNAV NA when using Aurora State altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
For inoperative MALSR when using Aurora State altimeter setting increase LPV visibility all Cats. to 1 ¼. VDP NA when using Aurora State altimeter setting.
When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet, increase all visibility ¼ mile.

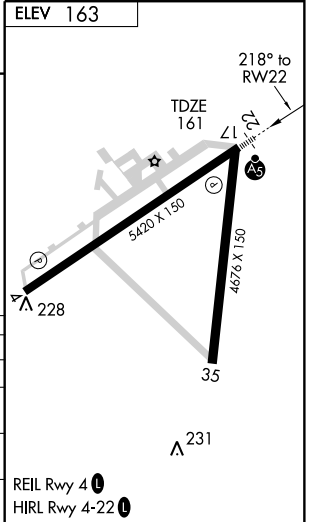
MALSR

MISSED APPROACH: Climb to 4900 direct OVUGE then via 218° track to PUCIV and hold, continue climb-in-hold to 4900.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 1
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4900	OVUGE	218° track	PUCIV
* LNAV only			
KIGKE 2.8 NM to RW22			
LYEYV 1900			
* 1.7 NM to RW22			
RW22 1100*			
2500			
UNECE			
OZIER			
4 NM Holding Pattern			
038° → 2900			
← 218°			
GS 3.00° TCH 57			
CATEGORY	A	B	D
LPV DA	474-1½ 313 (400-½)		
LNAV/VNAV DA	633-1¼ 472 (500-1¼)		
LNAV MDA	740-½ 579 (600-½)	740-1 579 (600-1)	740-1¼ 579 (600-1¼)
CIRCLING	740-1 577 (600-1)	760-1½ 597 (600-1½)	880-2¼ 717 (800-2¼)



NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME UBG
117.4
Chan **121**

APP CRS
014°

Rwy Idg	
TDZE	
Apt Elev	

N/A
N/A
163

VOR/DME-B
MC MINNVILLE MUNI (MMV)

T When local altimeter setting not received use Aurora State
A altimeter setting and increase all MDA 60 feet and all
visibility $\frac{1}{4}$ mile.

MISSED APPROACH: Climbing left turn to 4800 via heading 180° and UBG VOR/DME R-204 to COGOK/UBG 23 DME and hold, continue climb-in-hold to 4800.

ASOS
135.675

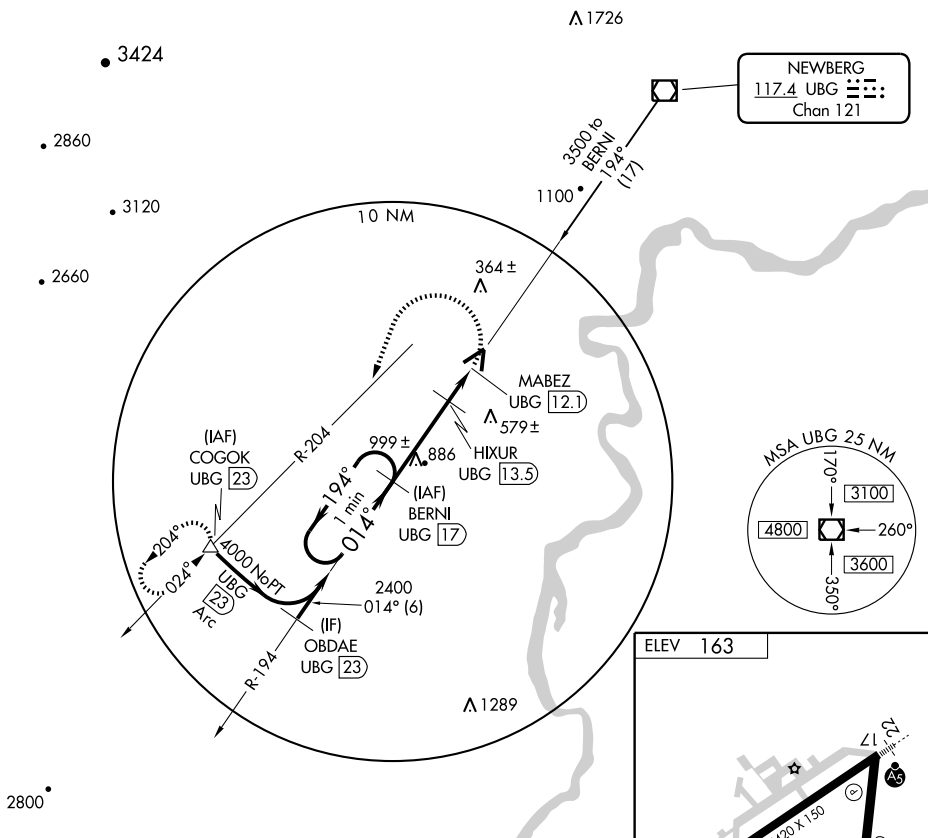
PORTLAND APP CON
126.0 284.6 (NORTH)

SEATTLE CENTER
125.8 291.7 (SOUTH)

McMINNVILLE RADIO
122.45

CLNC DEL
118.35

UNICOM
123.0 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

One Minute Holding Pattern

BERNI
UBG 17

4800

LIBG

COGOK

2700

$$\begin{array}{r} 194^{\circ} \\ 014^{\circ}- \end{array}$$

240

UBG

3.5 MA

BEZ

19

CATEGORY

A

B

D

CIRCLING

840-1

7 (700-1)

840-2

880-2 ¼

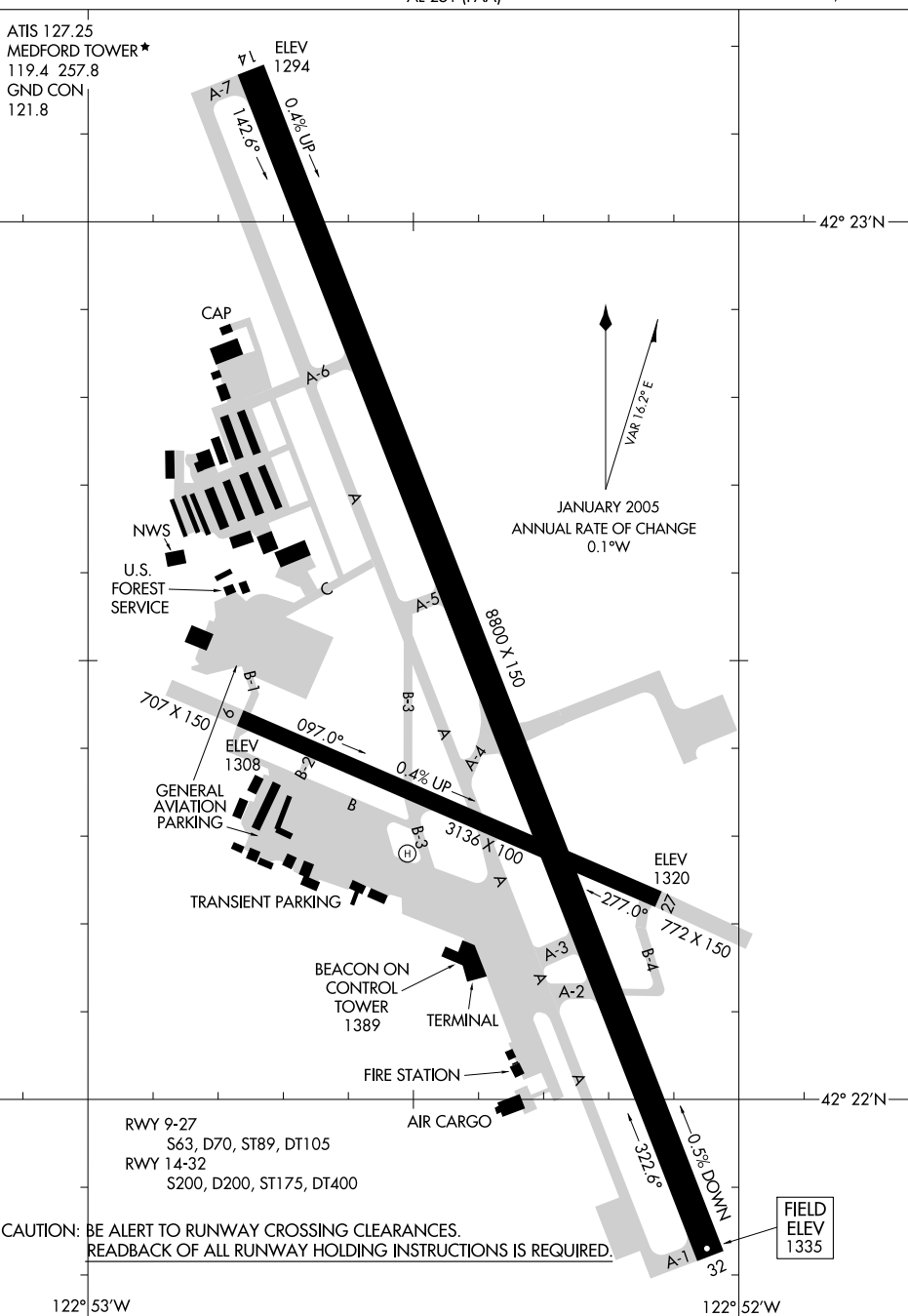
REIL Rwy 4 L

HIRL Rwy 4-22 **L**

AIRPORT DIAGRAM

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)
AL-251 (FAA) MEDFORD, OREGON

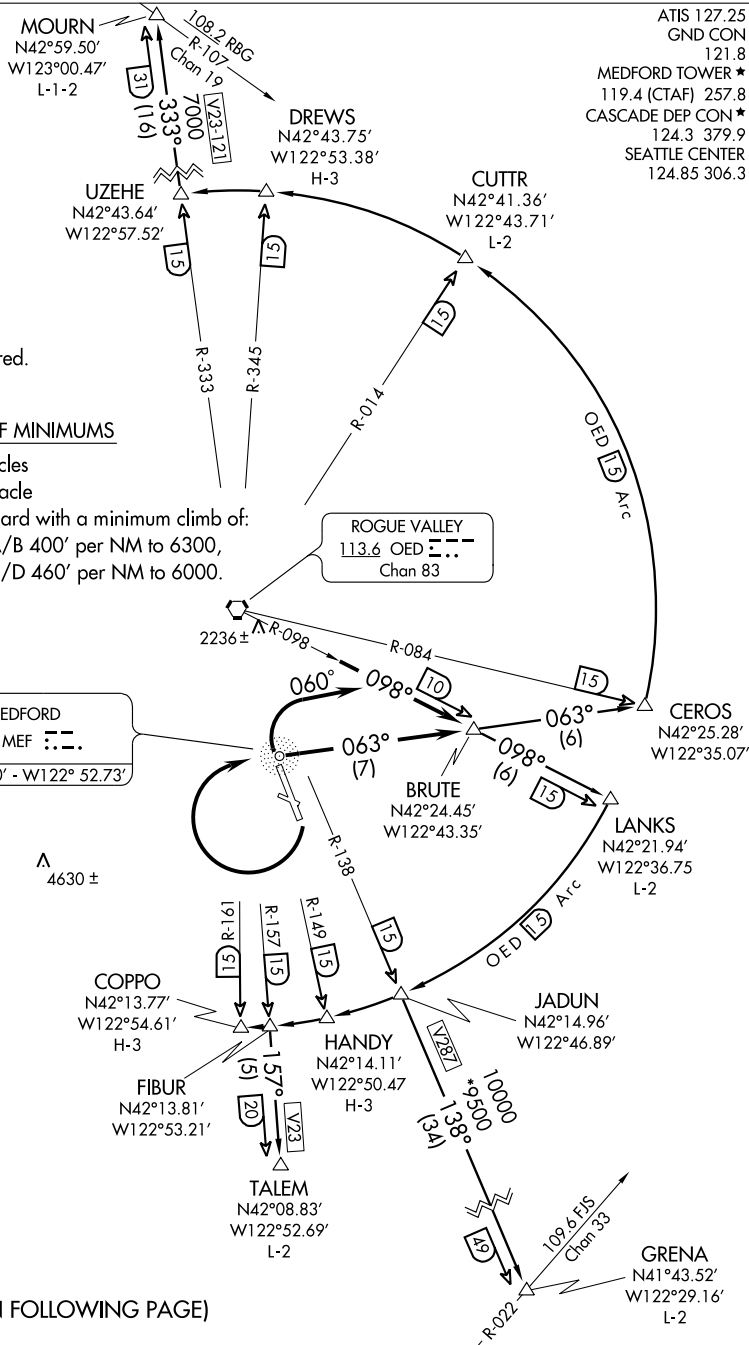
ATIS 127.25
MEDFORD TOWER ★
119.4 257.8
GND CON
121.8



NW-1, 22 OCT 2009 to 19 NOV 2009

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

BRUTE FIVE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

(NARRATIVE ON FOLLOWING PAGE)

BRUTE FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn direct to MEF NDB, depart MEF NDB 063° bearing outbound to BRUTE INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing right turn via 060° heading and OED R-098 to BRUTE INT. Thence. . . .

. . . . via (transition) or (assigned route). Maintain 11000 or assigned altitude.

COPPO TRANSITION (BRUTE5.COPPO) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to COPPO DME.

CUTTR TRANSITION (BRUTE5.CUTTR) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

DREWS TRANSITION (BRUTE5.DREWS) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to DREWS DME.

GRENA TRANSITION (BRUTE5.GRENA) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to JADUN DME. Then via OED R-138 to GRENA INT.

HANDY TRANSITION (BRUTE5.HANDY) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to HANDY DME.

LANKS TRANSITION (BRUTE5.LANKS) : From over BRUTE INT via OED R-098 to LANKS INT.

MOURN TRANSITION (BRUTE5.MOURN) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME. Then via OED R-333 to MOURN INT.

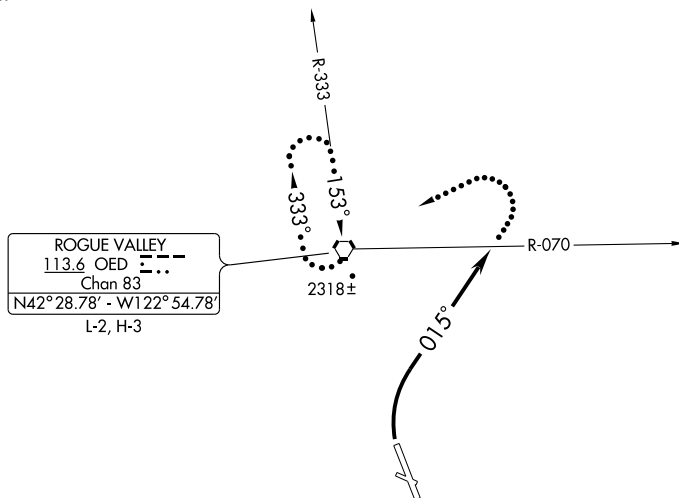
TALEM TRANSITION (BRUTE5.TALEM) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via OED R-157 to TALEM DME.

UZEHE TRANSITION (BRUTE5.UZEHE) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME.

EAGLE THREE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 32: 1700-3 or standard with minimum climb
of 300' per NM to 3000'.

RWYS 9, 14, and 27: Not authorized for this departure procedure.

ATC climb rate of 410' per NM until passing 6300 required.



DEPARTURE ROUTE DESCRIPTION

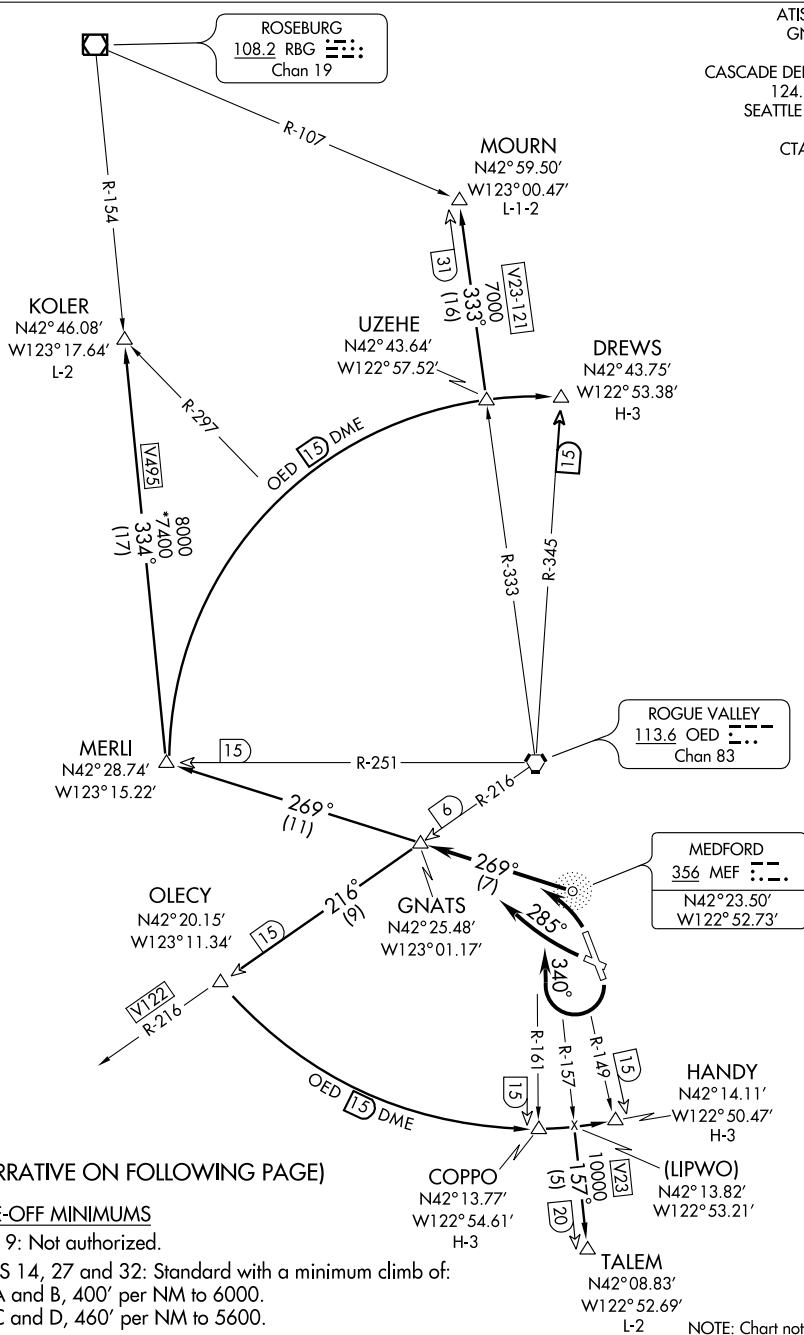
TAKE-OFF RUNWAY 32: Climbing right turn to heading 015°, maintain 11000' or assigned altitude, expect radar vectors to assigned route.
Expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC crossing the OED R-070, turn left, proceed direct OED VORTAC, continue climb in holding pattern (NW, right turn, 153° inbound) to minimum crossing altitude/minimum enroute altitude before proceeding on course.

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



NOTE: Chart not to scale.

NW-1 22 OCT 2009 to 19 NOV 2009

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn via 340° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn via 285° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing left turn via MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

. . . .via (transition) or (assigned route). Maintain 10,000' or assigned lower altitude.

COPPO TRANSITION (GNATS3.COPPO): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to COPPO DME.

DREWS TRANSITION (GNATS3.DREWS): From over GNATS INT via the MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to DREWS DME.

HANDY TRANSITION (GNATS3.HANDY): From over GNATS INT via the OED R-216 to OLECY INT, then via the OED 15 DME Arc to HANDY DME.

KOLER TRANSITION (GNATS3.KOLER): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via RBG R-154 to KOLER INT.

MOURN TRANSITION (GNATS3.MOURN): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to intercept OED R-333 to MOURN INT.

TALEM TRANSITION (GNATS3.TALEM): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to intercept OED R-157 to TALEM DME.

LOC/DME I-MFR	APP CRS	Rwy Idg	8800
110.3	140°	TDZE	1303
Chan 40		Apt Elev	1335

▼

▲

For inoperative MALS, increase S-ILS 14 CAT B visibility to RVR 6000, CAT C visibility to 1½ mile, and CAT D visibility to 2 miles.

MALS

AS

MISSED APPROACH: Cat A climb to 2000; Cat B climb to 2300; Cat C climb to 2400; Cat D climb to 2500, then climbing right turn to 6400 via heading 350° and OED R-160 to OED VORTAC and hold, continue climb-in-hold to 6400.

ATIS	CASCADE APP CON*	MEDFORD TOWER*	GND CON	UNICOM
127.25	124.3 379.9	119.4 (CTAF) 0 257.8	121.8	122.95



DME or RADAR REQUIRED FOR PROCEDURE ENTRY

Use I-MFR DME when on LOC course.

One Minute Holding Pattern

SAMIE I-MFR 18.3

AMASE I-MFR 12.7

Cat A 2000

Cat B 2300

Cat C 2400

Cat D 2500

6400

350°

OED R-160 113.6

OED 113.6

6300 ← 320°

140° → 140°

4990

OSSAJ I-MFR 8.6

PUMIE I-MFR 5.8

LOM I-MFR 1.6

2695

2700

5000

*3600

GS 3.00° TCH 58

*LOC only

5.7 NM

4.1 NM

2.8 NM

4.2 NM

ELEV 1335

140° 11.1 NM from FAF

TDZE 1303

8800 X 150

1359

31.36 X 100

0.4%

TWR 1389

1384

1338

CL Rwy 14-32

TDZ/CL Rwy 14

REIL Rwy 32

MIRL Rwy 9-27

HIRL Rwy 14-32

Knots

60

90

120

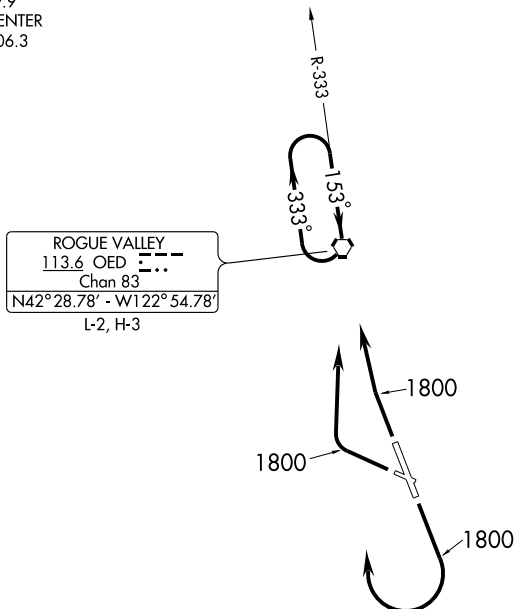
150

180

Min:Sec

CATEGORY	A	B	C	D
S-ILS 14	1553/24 250 (300-½)	1634/40 331 (300-¾)	1753/50 450 (500-1)	1862-1½ 559 (600-1½)
S-LOC 14	1640/24 337 (400-½)	1800/24 497 (500-½)	1920/60 617 (600-1¼)	2000-1¼ 697 (700-1¾)
CIRCLING	2000-1	665 (700-1)	2000-1¼ 665 (700-1¾)	2140-2½ 805 (900-2½)

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3



TAKE-OFF MINIMUMS

RWY 9: Not authorized.

RWY 14: Standard with a minimum climb of:

Cats A/B, 270' per NM to 3100', Cats C/D, 440' per NM to 4900.

RWY 27: Standard with minimum climb of 360' per NM to 3600.

RWY 32: Standard with a minimum climb of 300' per NM to 3000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Not authorized.

TAKE-OFF RUNWAYS 14 and 27: Climb runway heading to 1800 then turn right. Thence. . . .

TAKE-OFF RUNWAY 32: Climb runway heading to 1800. Thence. . . .

. . . . climb direct to the OED VORTAC. Continue climb in OED holding pattern (NW, right turn, 153° inbound) at or above 7000' before proceeding on course.

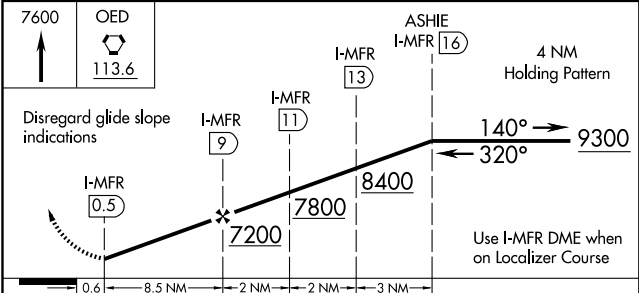
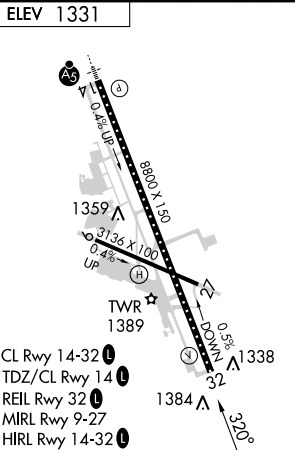
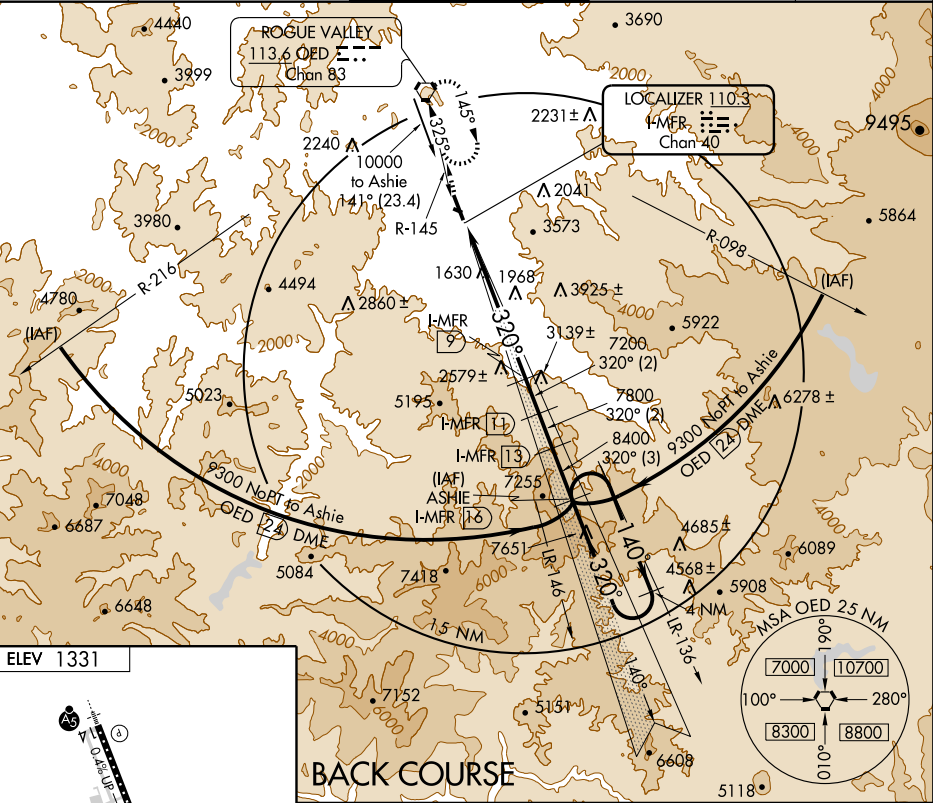
LOC/DME I-MFR 110.3 Chan 40	APP CRS 320°	Rwy Idg TDZE Apt Elev	N/A N/A 1331
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▼

▲

MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.

ATIS 127.25	CASCADE APP CON★ 124.3 379.9	MEDFORD TOWER★ 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	3540-1¼ 2209 (2300-1¼)	3540-1½ 2209 (2300-1½)	3540-3	2209 (2300-3)
Min:Sec										

APP CRS
325°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
1335

RNAV (GPS)-D

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)



DME/DME RNP-0.3 not authorized.

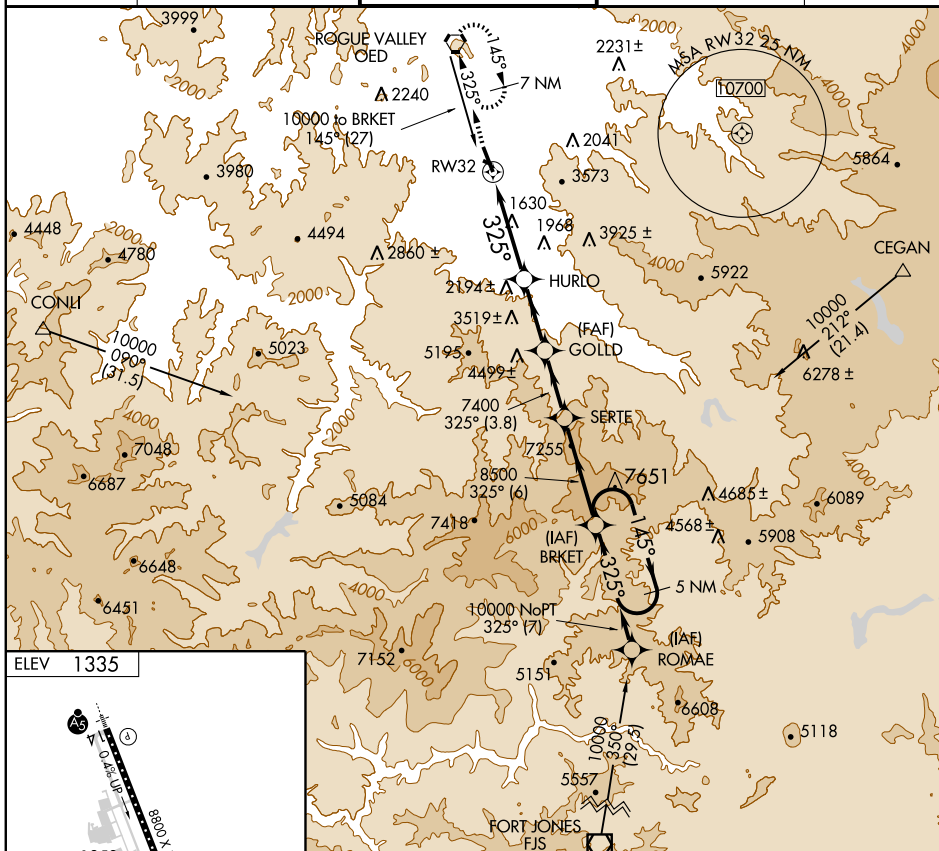
MISSED APPROACH: Climb to 7800 direct OED VORTAC and hold, continue climb-in-hold to 7800.

ATIS
127.25

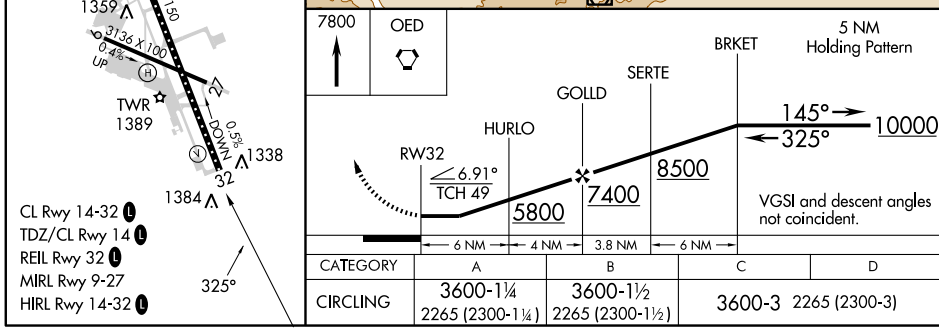
CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009



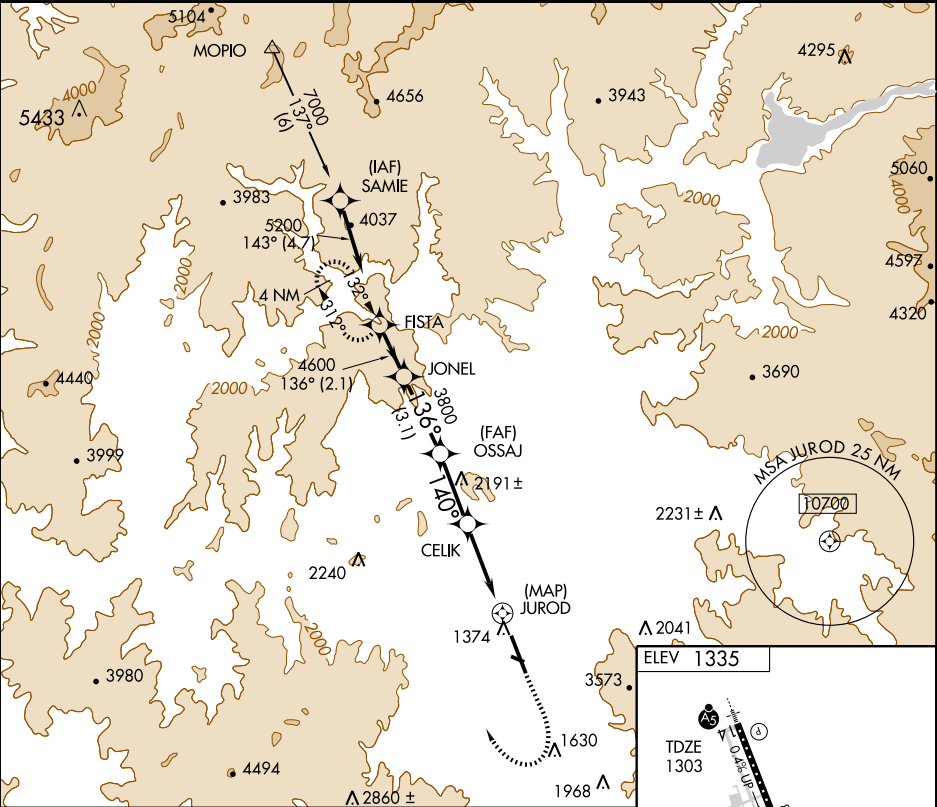
APP CRS	Rwy Idg	8800
140°	TDZE	1303
	Apt Elev	1335

RNAV (GPS) RWY 14

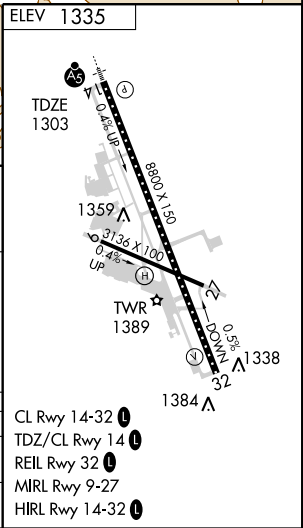
MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

	DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 3200 then climbing right turn to 5200 direct FISTA WP and hold.
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ATIS 127.25	CASCADE APP CON★ 124.3 379.9	MEDFORD TOWER★ 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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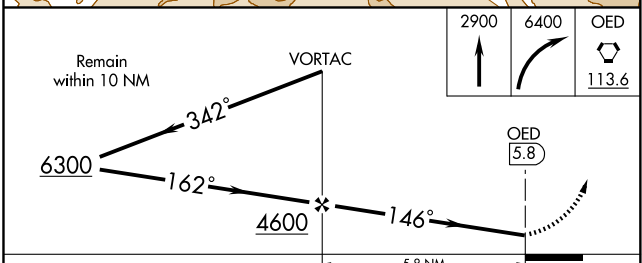
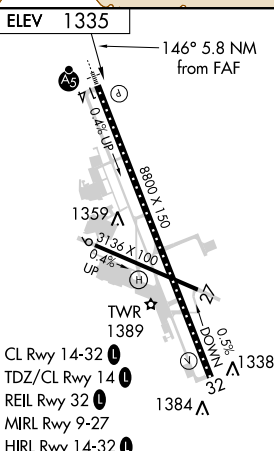


FISTA		VGSi and descent angles not coincident.		3200	5200	FISTA
JONEL		OSSAJ				
5200		4600				
Procedure Turn NA		3800				
136°		140°				
2.1 NM		3.1 NM				
2.7 NM		1 NM				
2.4 NM		0.9 NM				
CATEGORY		A		B		
LNAV MDA		2400/40		2400/50		
		1097 (1100-¾)		1097 (1100-1)		
CIRCLING		2400-1¼		2400-1½		
		1065 (1100-1¼)		1065 (1100-1½)		
				2400-3 1065 (1100-3)		



MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.

UNICOM
122.95

CATEGORY	A	B	C	D
CIRCLING	2680-1¼ 1345 (1400-1¼)	2680-1½ 1345 (1400-1½)	2680-3	1345 (1400-3)

VORTAC OED 113.6 Chan 83	APP CRS 325°	Rwy Idg TDZE Apt Elev	N/A N/A 1335
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VOR/DME-C
MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

VOR/DME-C



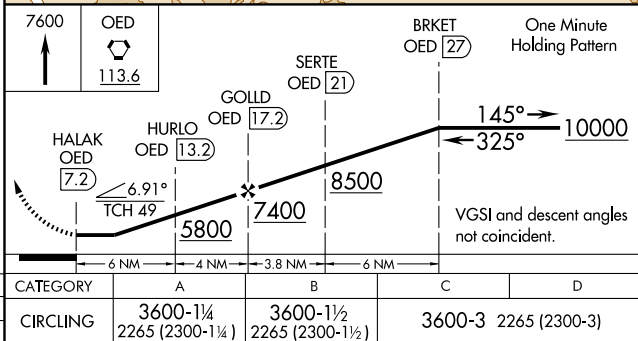
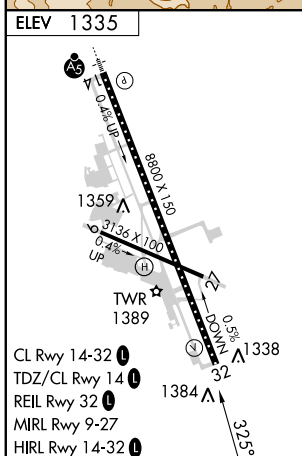
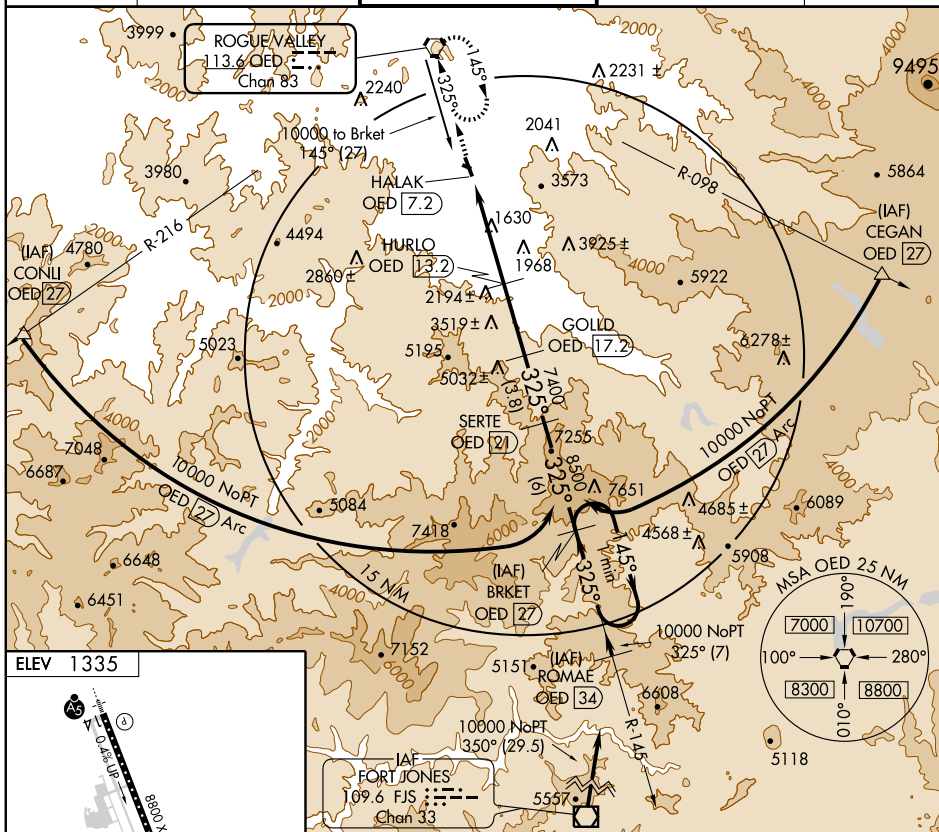
MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.

ATIS
127.25

CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

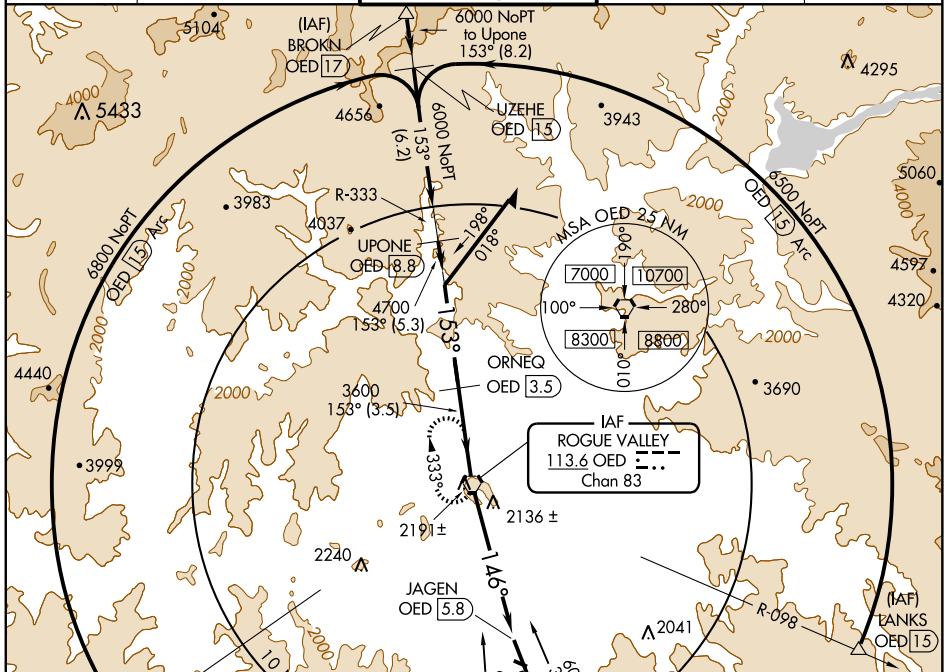
VORTAC OED	APP CRS	Rwy Idg	8800
113.6	146°	TDZE	1303
Chan 83		Apt Elev	1335

VOR/DME RWY 14

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

<p>T Inoperative table does not apply to S-14 CAT A.</p> <p>A For inoperative MALSR increase S-14 CAT B visibility to 1½.</p>	<p>MALSR</p> <p>A5</p>	<p>MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.</p>
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ATIS	CASCADE APP CON *	MEDFORD TOWER *	GND CON	UNICOM
127.25	124.3 379.9	119.4 (CTAF) 0 257.8	121.8	122.95



Topographic map showing the runway area. Key features include:
 - Elevation contours: 3980, 4494, 2860±, 6000, 6400, 3573.
 - Navigation aids: (IAF) QLECY OED 15, EFOYI OED 10, UHNEF OED 10.
 - Identifiers: R-216, R-138, R-157, 1630, 1968, 337° (110), 333° (110).
 - Other: 2900, 6400, OED 113.6.

Diagram illustrating the runway approach and descent path. Key features include:
 - Descent path: 333°, 153°, 4700, 3600, 146°.
 - Obstacles: ORNEQ OED 3.5, JAGEN OED 5.8.
 - Distances: 3.5 NM, 1.7 NM, 4.1 NM.
 - VGSI and descent angles not coincident.
 - VORTAC, TCH 73, 3.63°.

CATEGORY	A	B	C	D
S-14	2680/60	1377 (1400-1¼)	2680-2½	1377 (1400-2½)
CIRCLING	2680-1¼ 1345 (1400-1¼)	2680-1½ 1345 (1400-1½)	2680-3	1345 (1400-3)

Detailed diagram of the runway and its surroundings. Key features include:
 - Runway: 14-32, 1338, 1384, 32.
 - Obstacles: TWR 1389, 1359, 1384.
 - Distances: 146° 5.8 NM from FAF, 8800 X 150, 3136 X 100, 0.4% UP, 0.95% DOWN.
 - ELEV 1335, TDZE 1303, 1338, 1384.

CL Rwy 14-32	1
TDZ/CL Rwy 14	1
REIL Rwy 32	1
MIRL Rwy 9-27	
HIRL Rwy 14-32	1

Knots	60	90	120	150	180
Min:Sec					

LOC I-ONP <u>111.5</u>	APP CRS 158°	Rwy Idg TDZE Apt Elev	5398 151 160
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ILS or LOC RWY 16
NEWPORT MUNI (ONP)



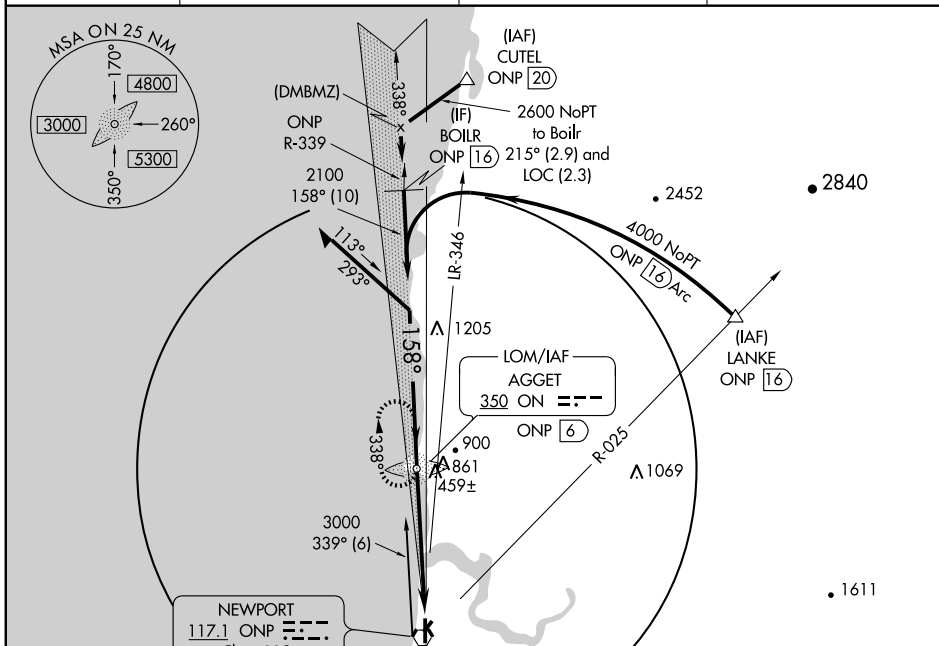
A NA

MALSR

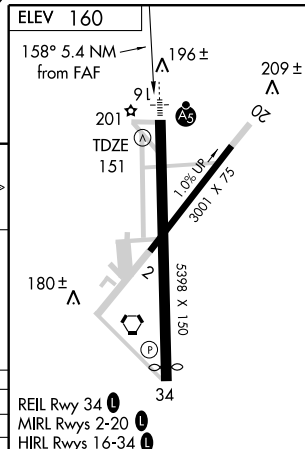
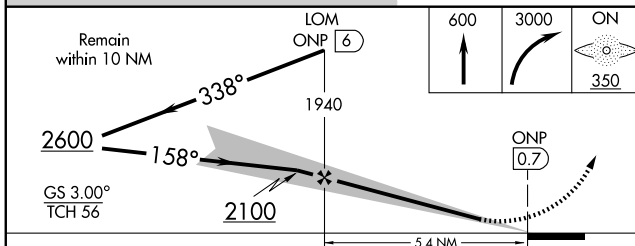


MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct AGGET LOM/ONP 6 DME and hold.

AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNIVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 1
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ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 16	351- $\frac{3}{4}$ 200 (200- $\frac{3}{4}$)			
S-LOC 16	720- $\frac{3}{4}$ 569 (600- $\frac{3}{4}$)		720-1 $\frac{1}{2}$ 569 (600-1 $\frac{1}{2}$)	720-1 $\frac{3}{4}$ 569 (600-1 $\frac{3}{4}$)
CIRCLING	880-1	720 (800-1)	880-2 720 (800-2)	960-2 $\frac{1}{2}$ 800 (800-2 $\frac{1}{2}$)

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

APP CRS	Rwy Idg	5398
158°	TDZE	151
	Apt Elev	160

RNAV (GPS) RWY 16

NEWPORT MUNI (ONP)

T Inoperative table does not apply to LNAV/VNAV.
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA
 Baro-VNAV NA below -15°C (5°F).

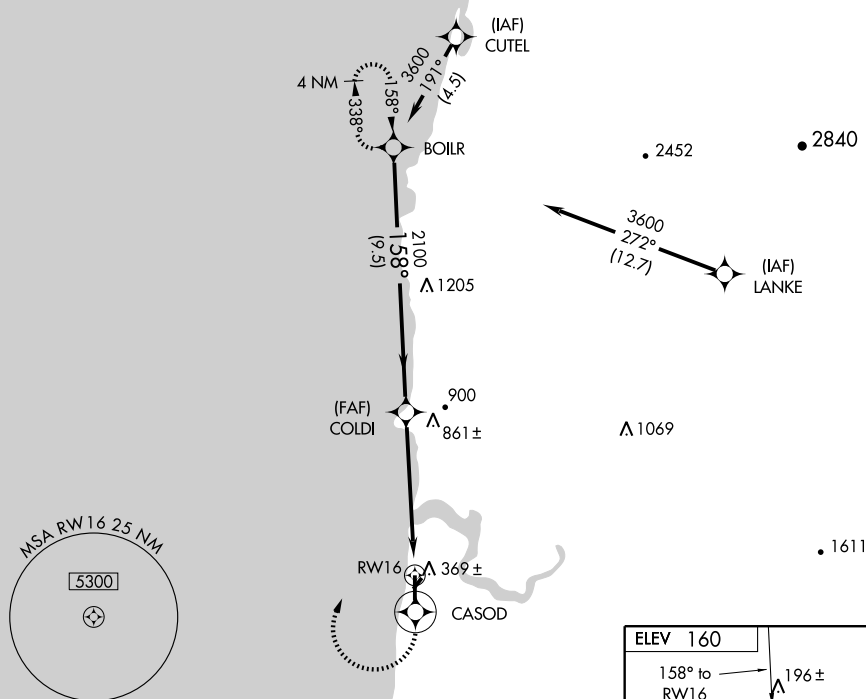
MALSR

MISSED APPROACH: Climb to 800 via 158° course to CASOD WP then climbing right to 3600 direct BOILR WP and hold.

AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

UNICOM
122.8 (CTAF) **L**

Procedure
Turn
NA

BOILR

80

CASO

3600

BOILR

GS 3.00°
TCH 56

2100

COLDI

and descent angles
coincident.

9.5 NM

5.8 NM —

CATEGORY		
GLS	PA	DA

A

1

9

LNAV/ VNAV	DA
---------------	----

620-1½ 469 (500-1½)

LNAV MDA

720- $\frac{3}{4}$ 569 (600- $\frac{3}{4}$)

720-1½
569 (600-1½)

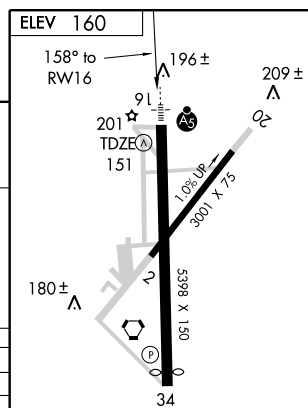
720-1 $\frac{3}{4}$
69 (600-1 $\frac{3}{4}$)

CIRCLING

880-1½ 720 (800-1½)

880-2
720 (800-2)

960-2 1/2
00 (800 314)

REIL Rwy 34 **L**

MIRL Rwy 2-2
HIRL Rwy 16-

HIRL Rwy 16-

APP CRS	Rwy Idg	5098
328°	TDZE	155
	Apt Elev	160

RNAV (GPS) RWY 34
NEWPORT MUNI (ONP)

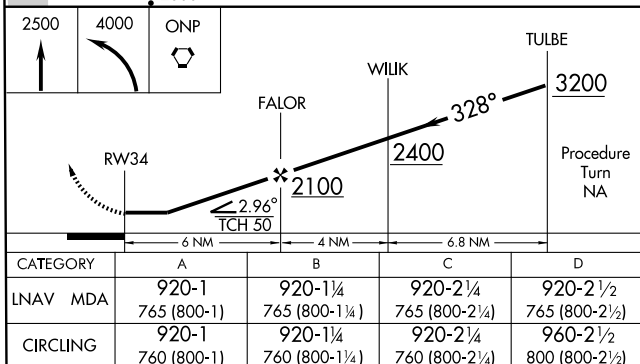
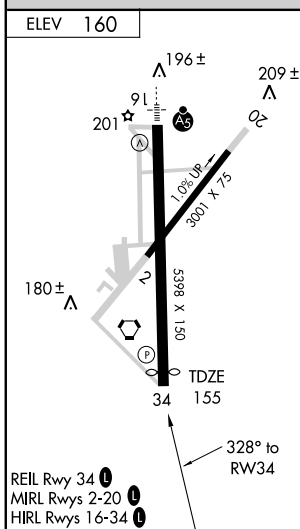
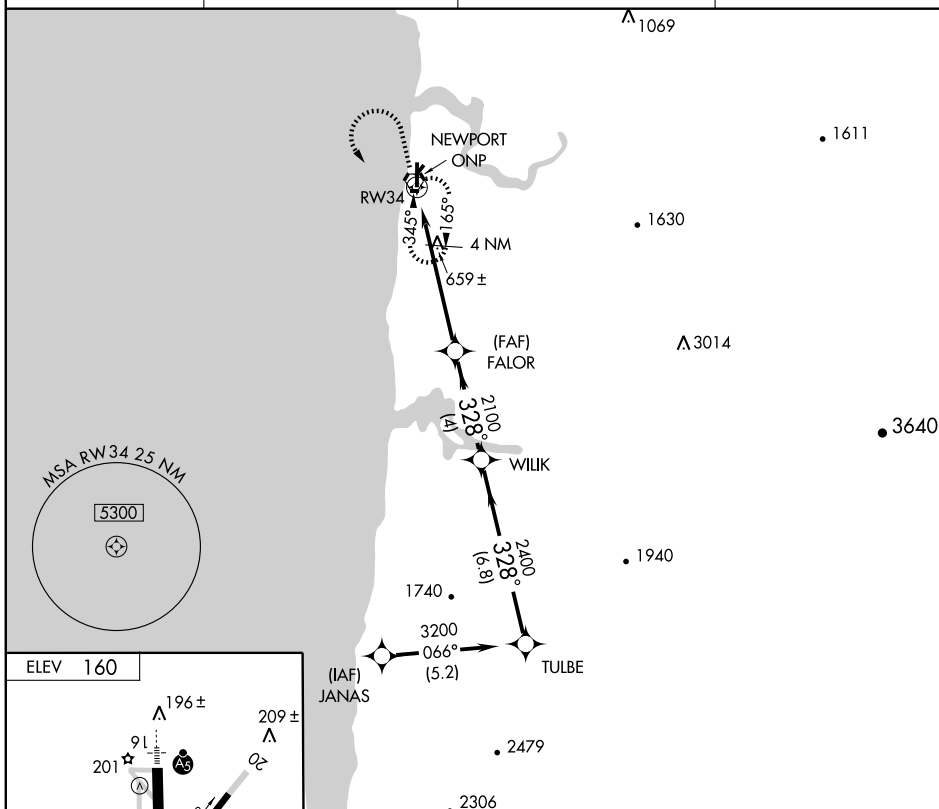
T
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500, then climbing left turn to 4000 direct ONP VORTAC and hold.

AWOS-3
133.9


SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

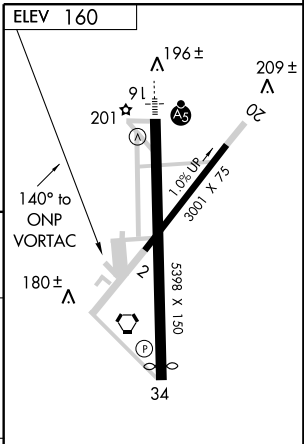
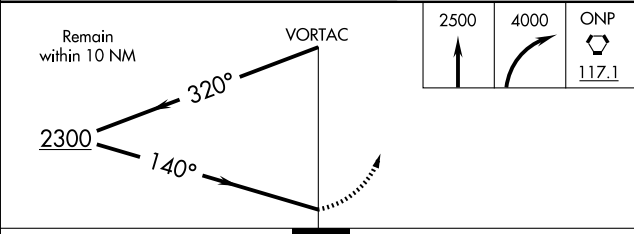
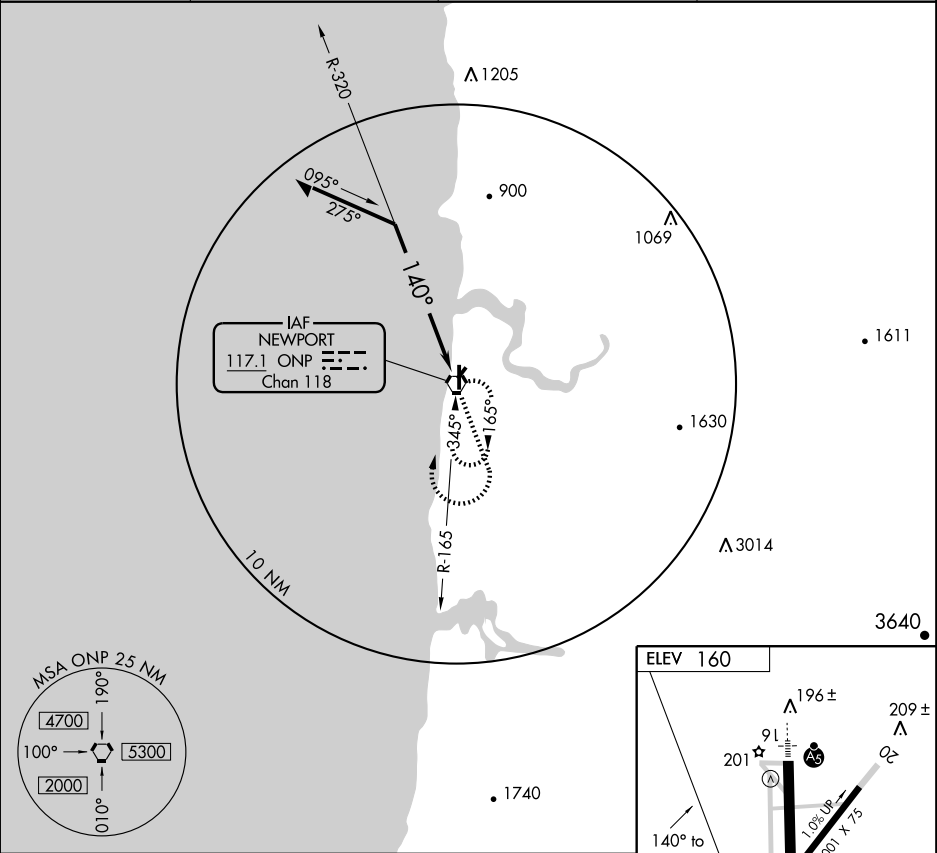
UNICOM
122.8 (CTAF) **L**

VORTAC ONP 117.1 Chan 118	APP CRS 140°	Rwy Idg TDZE Apt Elev	N/A N/A 160
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VOR-A
NEWPORT MUNI (ONP)

 NA	MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 
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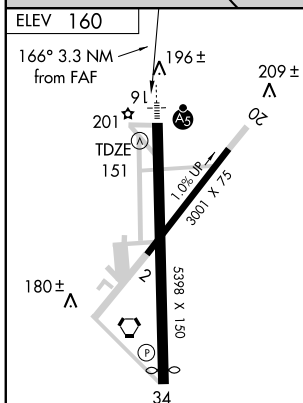
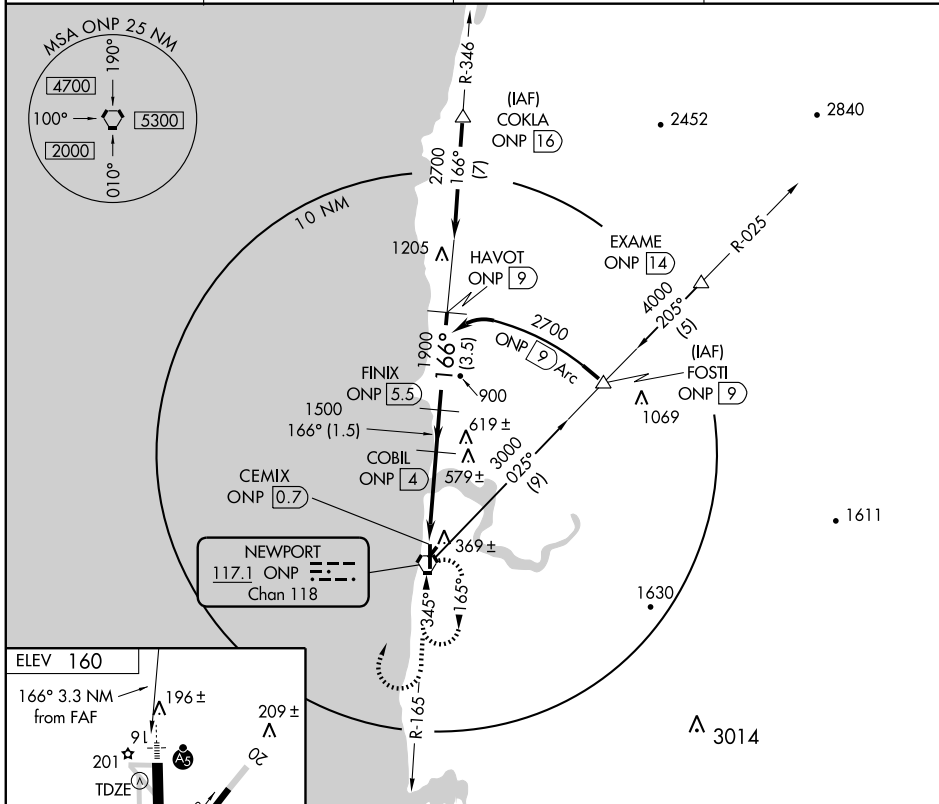
CATEGORY	A	B	C	D
CIRCLING	1160-1¼ 1000 (1000-1¼)	1160-1½ 1000 (1000-1½)	1160-3	1000 (1000-3)

REIL Rwy 34 
MIRL Rwy 2-20 
HIRL Rwy 16-34 

VORTAC ONP <u>117.1</u> Chan 118	APP CRS 166°	Rwy Idg 5398 TDZE 151 Apt Elev 160
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VOR/DME RWY 16
NEWPORT MUNI (ONP)

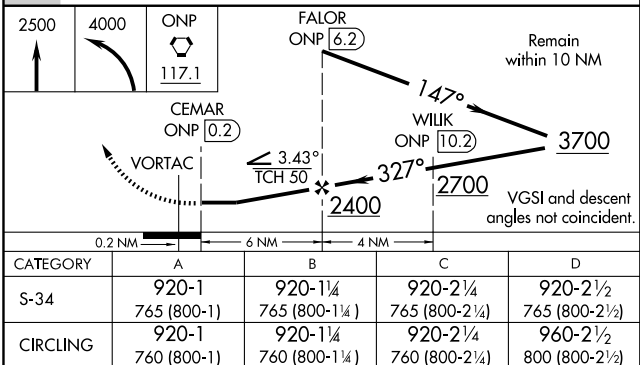

 Inoperative table does not apply to MALSF Rwy 16.		 MALSR	MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.	
AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5		UNICOM 122.8 (CTAF) ①



CATEGORY	A	B	C	D
S-16	640-1 489 (500-1)		640-1¼ 489 (500-1¼)	NA
CIRCLING	880-1 720 (800-1)		880-2 720 (800-2)	960-2½ 800 (800-2½)

VOR/DME RWY 34
NEWPORT MUNI (ONP)

MISSED APPROACH: Climb to 2500 then climbing left turn to 4000 direct ONP VORTAC and hold.

UNICOM
122.8 (CTAF) 

AIRPORT DIAGRAM

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)
AL-929 (FAA) NORTH BEND, OREGON

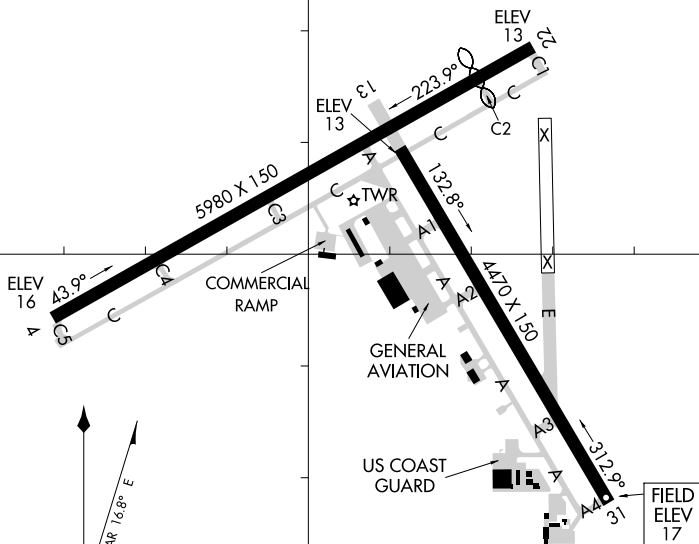
AWOS-3
135.075
SOUTHWEST RGNL TOWER ★
118.45
GND CON
127.1

D

43°26'N

RWY 4-22
S106, D113, ST143, DT190
RWY 13-31
S90, D100, ST127, DT100

207



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REDBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

43°24'N

124°15'N

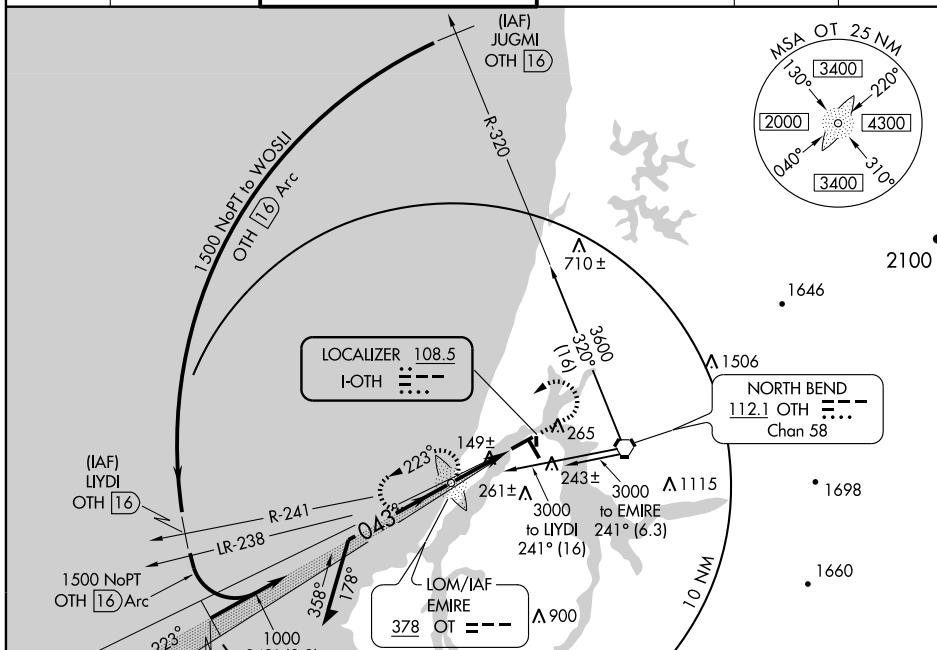
124°14'N

LOC I-OTH 108.5	APP CRS 043°	Rwy Idg TDZE Apt Elev	5321 16 17
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COPTER ILS or LOC RWY 4

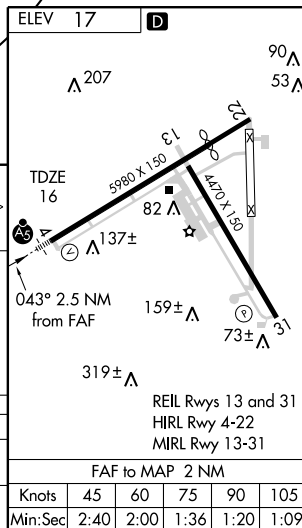
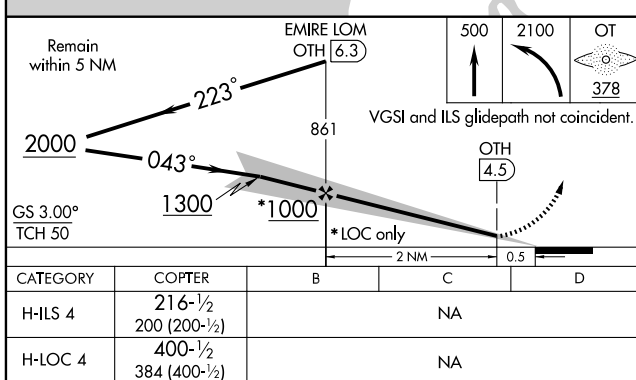
NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

<div>▼</div> <div>ADF required. If local altimeter setting not received, procedure NA. US Coast Guard use only.</div>	<div>MALSR</div> <div><div>A5</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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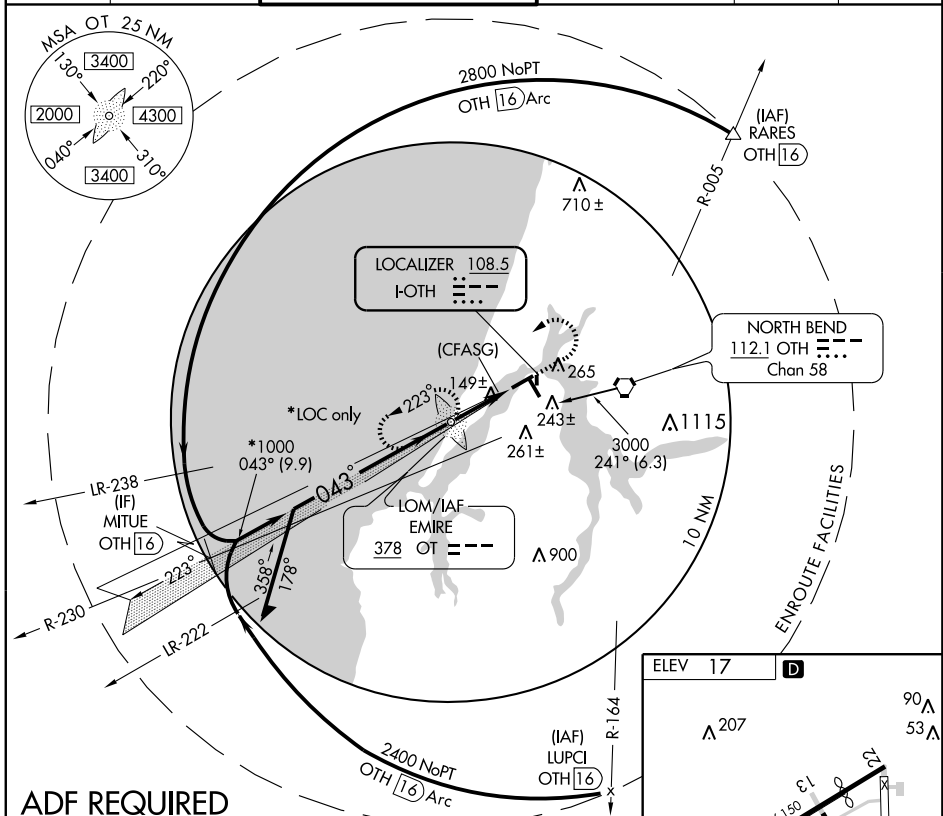


NW-1. 22 OCT 2009 to 19 NOV 2009

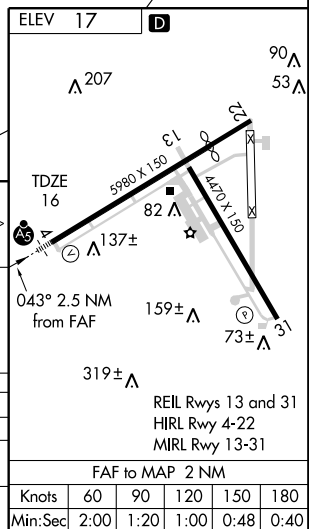
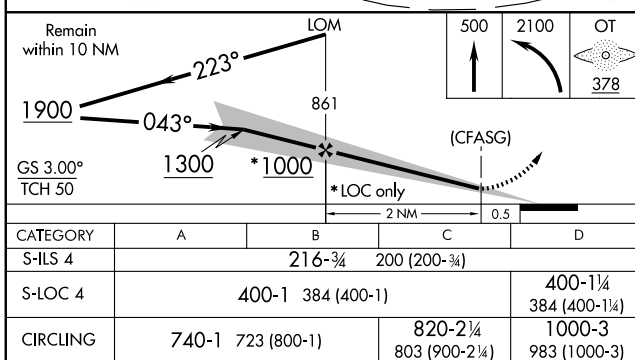
ADF or DME REQUIRED



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ADF REQUIRED



LOM OT 378	APP CRS 043°	Rwy Idg TDZE Apt Elev	5321 16 17
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NDB or GPS RWY 4

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)

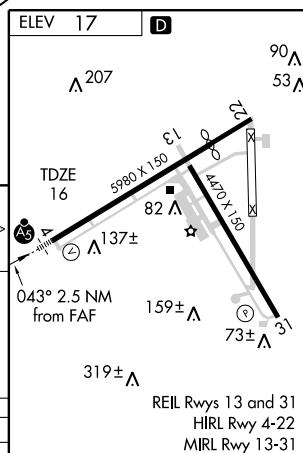
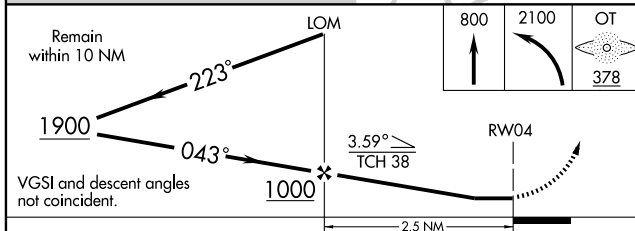
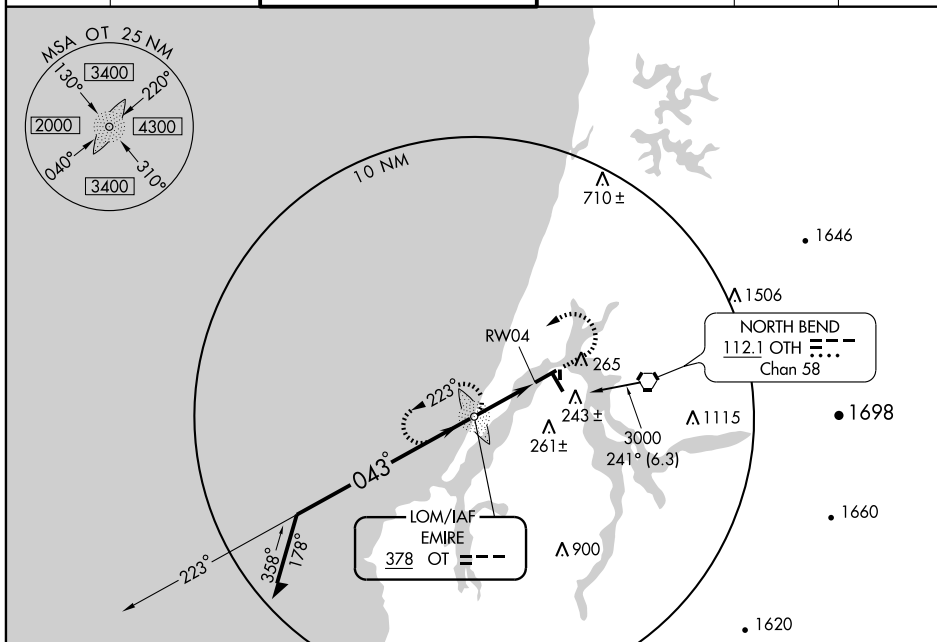


MALSR



MISSED APPROACH: Climb to 800, then climbing left turn to 2100 direct EMIRE (OT) LOM and hold, continue climb-in-hold to 2100.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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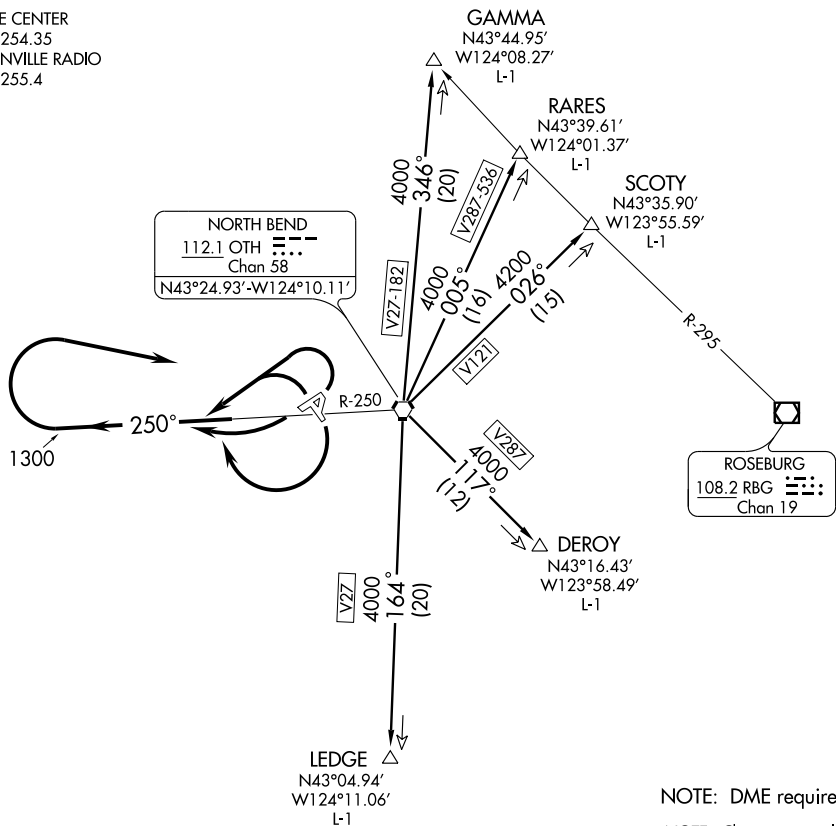


CATEGORY	A	B	C	D
S-4	660-1	644 (700-1)	660-1½ 644 (700-1¾)	660-2 644 (700-2)
CIRCLING	740-1 723 (800-1)	740-1¼ 723 (800-1¼)	820-2¼ 803 (900-2¼)	1000-3 983 (1000-3)

FAF to MAP 2.5 NM					
Knots	60	90	120	150	180
Min:Sec	2:30	1:40	1:15	1:00	0:50

NORTH BEND FOUR DEPARTURE

SEATTLE CENTER
121.4 254.35
McMINNVILLE RADIO
122.4 255.4



NOTE: DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 31 and 34: Turn left. Thence....

TAKE-OFF RUNWAYS 13, 16 and 22: Turn right. Thence....

....All aircraft climb via OTH R-250 to 1300, then climbing right turn direct OTH VORTAC. Thence via (transition).

DEROY TRANSITION (OTH4.DEROY): From over OTH VORTAC via OTH R-117 to DEROY DME FIX.

GAMMA TRANSITION (OTH4.GAMMA): From over OTH VORTAC via OTH R-346 to GAMMA INT.

LEDGE TRANSITION (OTH4.LEDGE): From over OTH VORTAC via OTH R-164 to LEDGE DME FIX.

RARES TRANSITION (OTH4.RARES): From over OTH VORTAC via OTH R-005 to RARES INT.

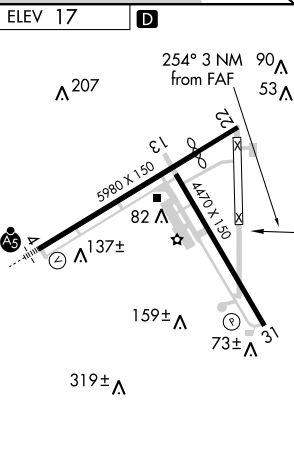
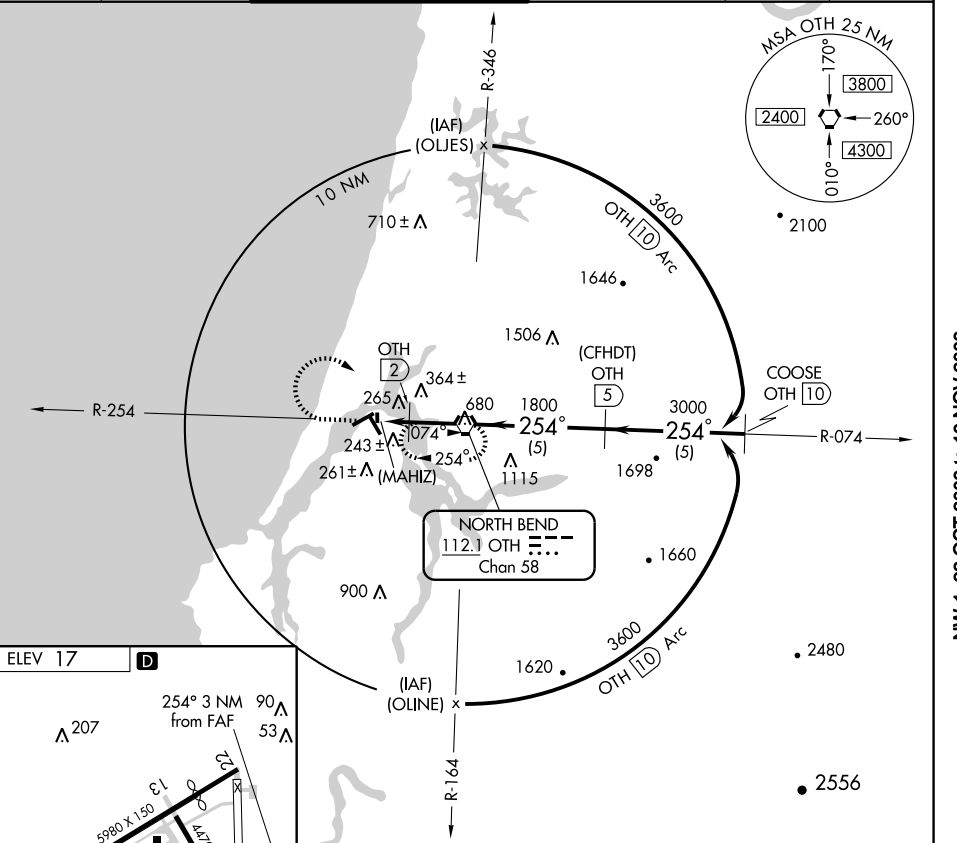
SCOTY TRANSITION (OTH4.SCOTY): From over OTH VORTAC via OTH R-026 to SCOTY INT.

▼

▲

MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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	2500	3600	OTH 112.1	(CFHDT) OTH [5]	COOSE OTH [10]
	↑	↷	VORTAC	254°	3600
			(MAHIZ) OTH [3]	3000	Procedure Turn NA
	1000	1800			
	1 NM	2 NM	5 NM	5 NM	
CATEGORY	A	B	C	D	
CIRCLING	720-1 706 (800-1)	760-1¼ 746 (800-1¼)	820-2¼ 806 (900-2¼)	1000-3 986 (1000-3)	

REIL Rwy 13 and 31
HIRL Rwy 4-22
MIRL Rwy 13-31

NW-1. 22 OCT 2009 to 19 NOV 2009

VORTAC OTH

112.1

Chan 58

APP CRS

070°

Rwy Idg

5321

TDZE

12

Apt Elev

17

VOR/DME RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

V

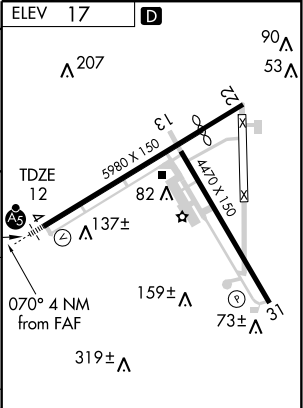
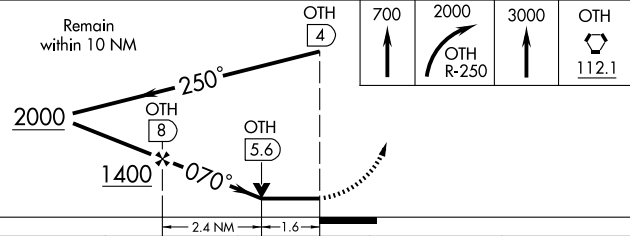
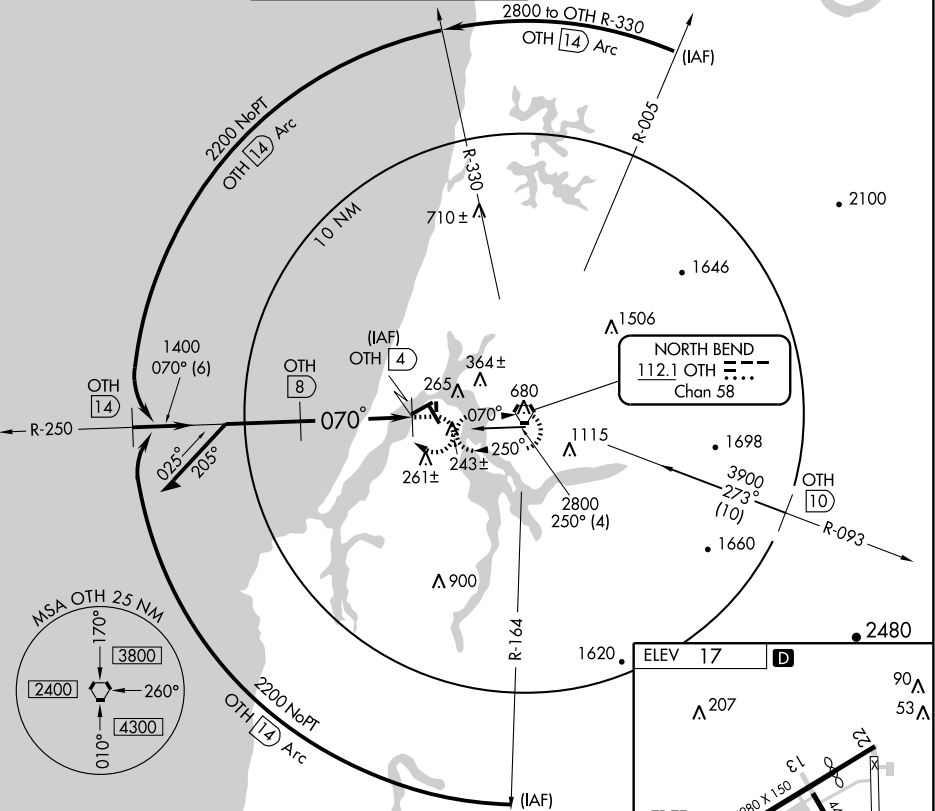
A

MALSR

A5

MISSED APPROACH: Climb to 700, then climbing right turn to 2000 via OTH R-250; then climb to 3000 direct OTH VORTAC and hold.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) <div>Ⓛ</div>	122.4 255.4	127.1	122.7



CATEGORY	A	B	C	D
S-4	540-1 528 (600-1)		540-1½ 528 (600-1½)	540-1¾ 528 (600-1¾)
CIRCLING	720-1 706 (800-1)	760-1¼ 746 (800-1¼)	820-2¼ 806 (900-2¼)	1000-3 986 (1000-3)

REIL Rwy 13 and 31
HIRL Rwy 4-22
MIRL Rwy 13-31

▼

▲

MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) 0	122.4 255.4	127.1	122.7

ELEV 17

D

2500

3600

OTH

112.1

VORTAC

074°

254°

3600

2300

3 NM

(MAHIZ)

Remain within 10 NM

FAF to MAP 3 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1100-1¼ 1086 (1100-1¼)	1100-1½ 1086 (1100-1½)	1100-3	1086 (1100-3)
Min:Sec	3:00	2:00	1:30	1:12	1:00					

NW-1. 22 OCT 2009 to 19 NOV 2009

NDB ONO
305

APP CRS
335°

Rwy Idg	5011
TDZE	2193
Apt Elev	2193

NDB RWY 32
ONTARIO MUNI (ONO)

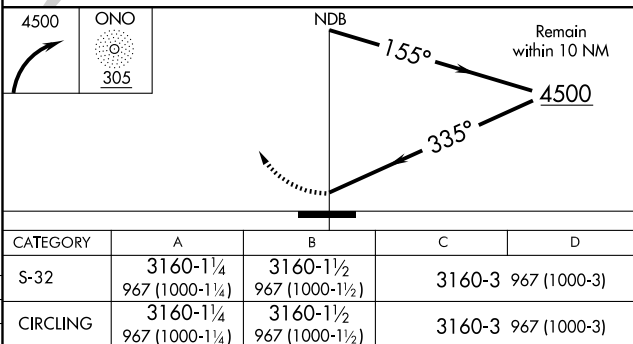
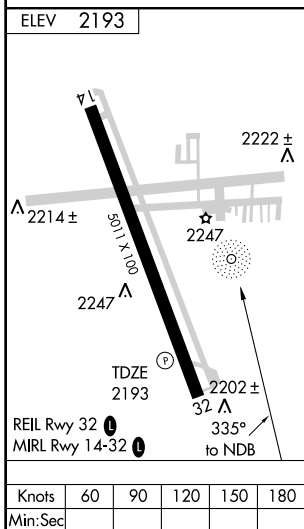
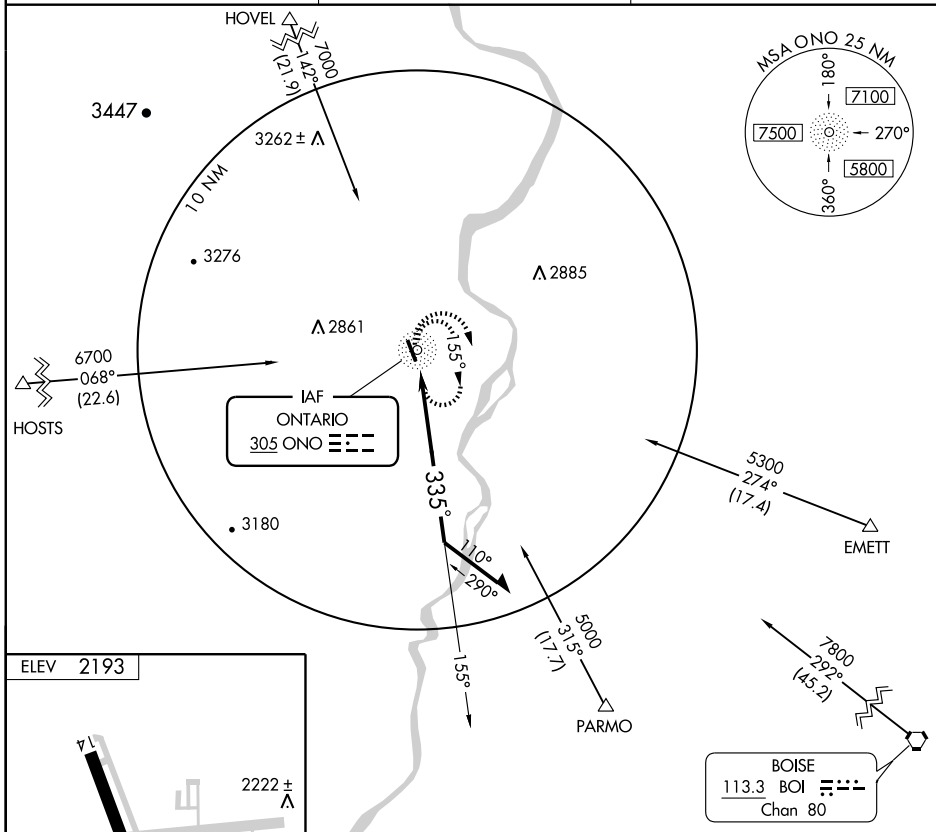


Visibility reduction by helicopters NA.
When local altimeter setting not received, use Caldwell
altimeter setting and increase MDA 100 feet.

MISSED APPROACH: Climbing right turn to 4500 in ONO NDB holding pattern.

ASOS
135.275

SALT LAKE CENTER
128.05 387.15

UNICOM
122.8 (CTAF) **L**

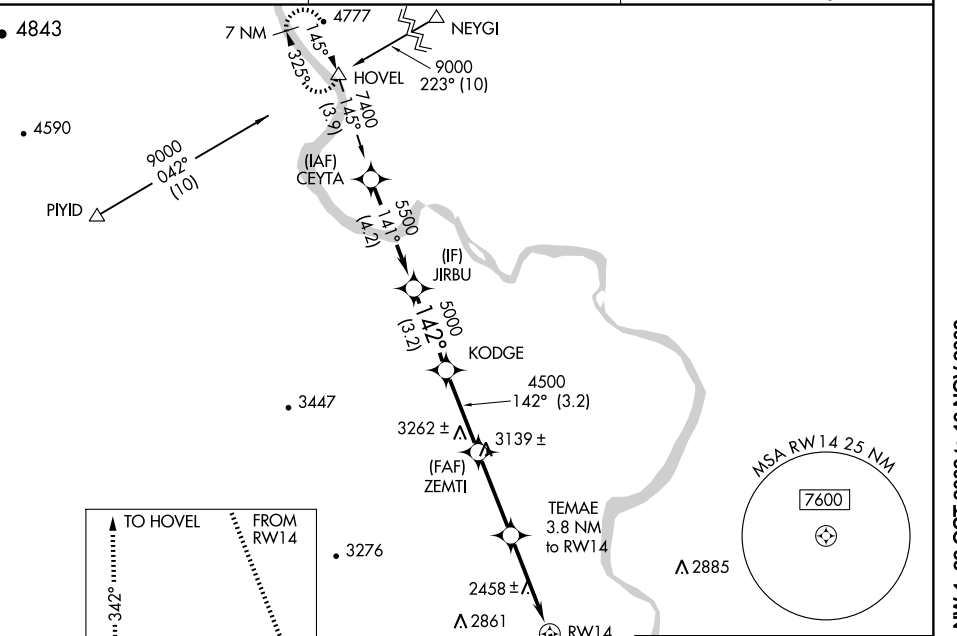
WAAS CH 78207 W14A	APP CRS 142°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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▼ Baro-VNAV NA when using Caldwell altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F). DME/DME RNP -0.3 NA.

▲ Visibility reduction by helicopters NA. When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV Cat C and D ¼ mile, Circling Cat C ¼ mile.

MISSED APPROACH: Climb to 9000 direct TUCUB and right turn via 241° track to LUYID and right turn via 342° track to HOVEL and hold.

ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA					ELEV 2193	
JIRBU					142° to RWY 14	
5500					TDZE 2193	
GS 3.00° TCH 40					2222 ±	
KODGE					2247	
5000					2247	
4500					2202 ±	
3420*					32	
3.2 NM					REIL Rwy 32	
A					MRL Rwy 14-32	
B						
C						
D						
CATEGORY						
LPV DA	2744-2				551 (600-2)	
LNAV/ DA VNAV	2781-2				588 (600-2)	
LNAV MDA	2720-1	527 (600-1)	2720-1½	527 (600-1½)	2720-1¾	527 (600-1¾)
CIRCLING	2720-1	2760-1	2760-1½	567 (600-1½)	2760-2	567 (600-2)

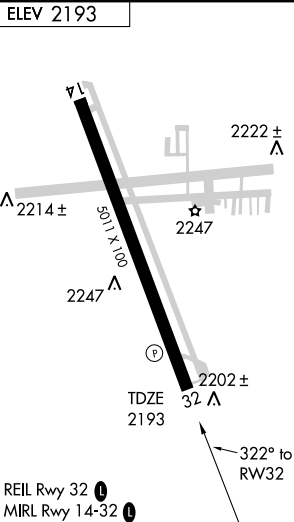
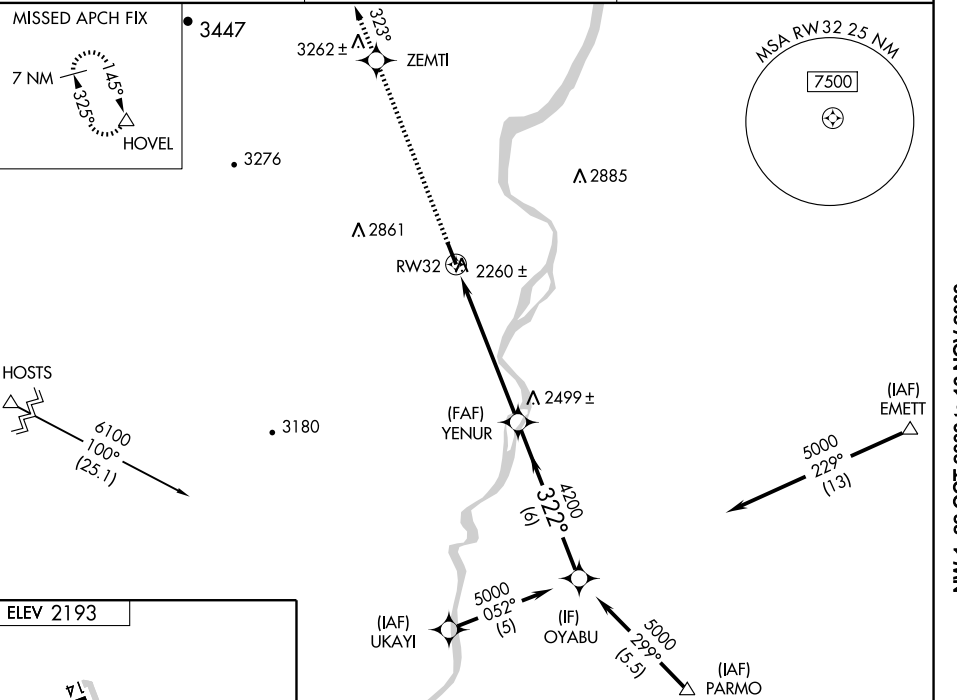
NW-1, 22 OCT 2009 to 19 NOV 2009

WAAS CH 87007 W32A	APP CRS 322°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). Baro-VNAV and VDP NA when using Caldwell altimeter setting.
⚠ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV and LNAV/VNAV visibility ¼ mile all Cats, LNAV Cat C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 9000 direct ZEMTI and via 323° track to HOVEL and hold, continue climb-in-hold to 9000.

ASOS 135.275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 1
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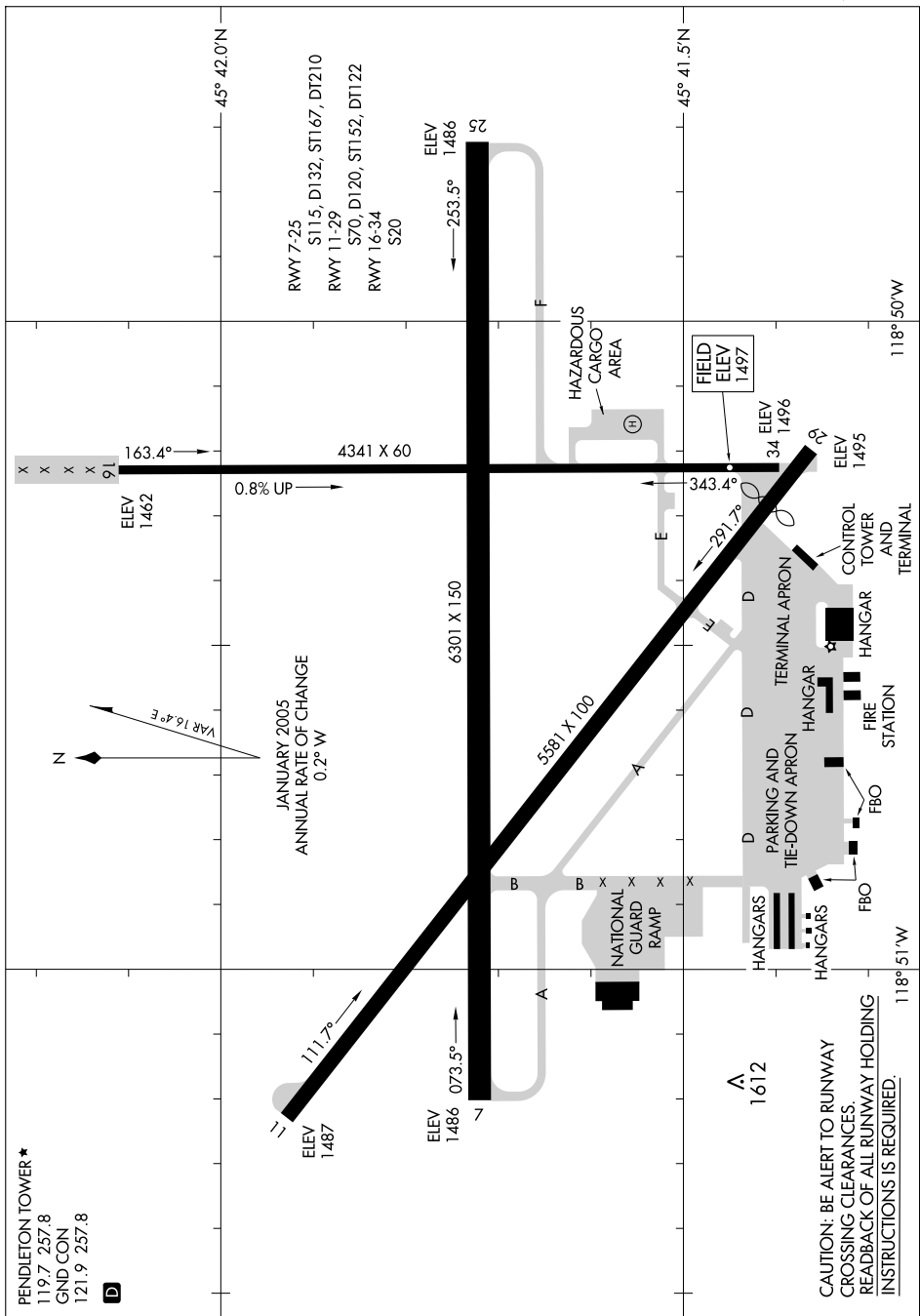


9000	ZEMTI	323° track	HOVEL	Procedure Turn NA
*LNAV only	*1.7 NM to RW32	YENUR	OYABU	5000
	1.7 NM	4.4 NM	6 NM	GS 3.00° TCH 40
CATEGORY	A	B	C	D
LPV DA	2443-1		250 (300-1)	
LNAV/VNAV DA	2510-1¼		317 (400-1¼)	
LNAV MDA	2760-1	567 (600-1)	2760-1½ 567 (600-1½)	2760-1¾ 567 (600-1¾)
CIRCLING	2760-1	567 (600-1)	2760-1½ 567 (600-1½)	2760-2 567 (600-2)

NW-1, 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

PENDLETON / EASTERN OREGON RGNL AIRPORT (PDT)
 AL-316 (FAA)
 PENDLETON, OREGON



NW-1. 22 OCT 2009 to 19 NOV 2009

ILS or LOC/DME RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

LOC I-PDT	APP CRS	Rwy Idg	6301
110.3	254°	TDZE	1487
		Apt Elev	1497

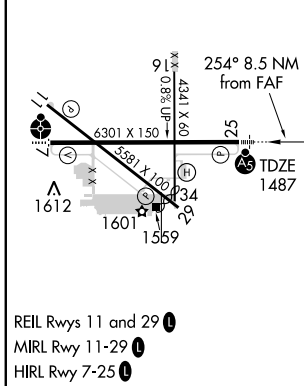
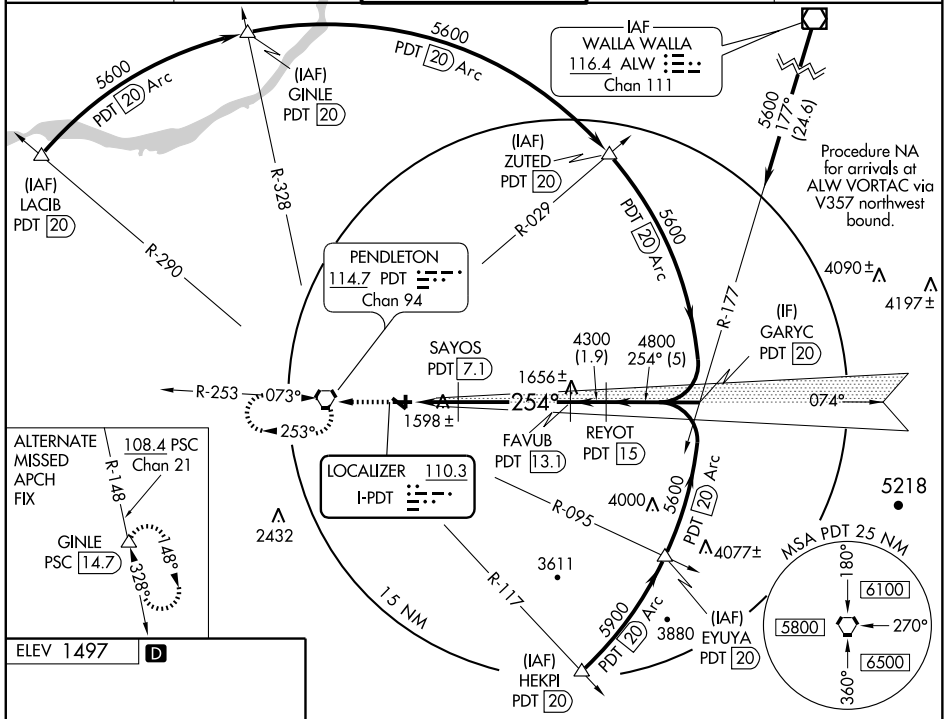
- ▼** DME from PDT VORTAC. Simultaneous reception of I-PDT and PDT VORTAC DME required.
- ▲** When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and S-LOC 25 Cat C/D visibility ¼ mile. For inoperative MALS when using Walla Walla altimeter setting increase S-ILS 25 visibility all Cats to 1 mile.
- **** RVR 1800 authorized with the use of FD or AP or HUD to DA, NA when using Walla Walla altimeter setting.



MALS R

MISSED APPROACH: Climb to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS	CHINOOK APP CON *	PENDLETON TOWER *	GND CON	UNICOM
118.325	133.15 379.15	119.7 (CTAF) 0 257.8	121.9 257.8	122.95



4000	PDT	VGSI and ILS glidepath not coincident.	FAVUB	REYOT	GARYC
114.7	114.7		PDT [13.1]	PDT [15]	PDT [20]
* LOC only	SAYOS	4300	254°	5600	Procedure Turn NA
	PDT [7.1]	2320*	4300	4800	GS 3.00° TCH 55
	PDT [4.6]	2.5	6 NM	1.9 NM	5 NM
CATEGORY	A	B	C	D	
S-ILS 25	** 1687/24 200 (200-½)				
S-LOC 25	1860/24 373 (400-½)				1860/40 373 (400-¾)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)	

WAAS CH 73012 W07A	APP CRS 074°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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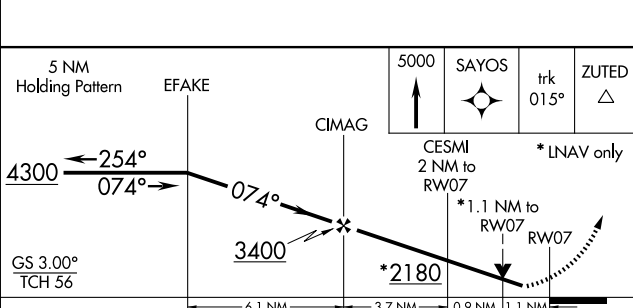
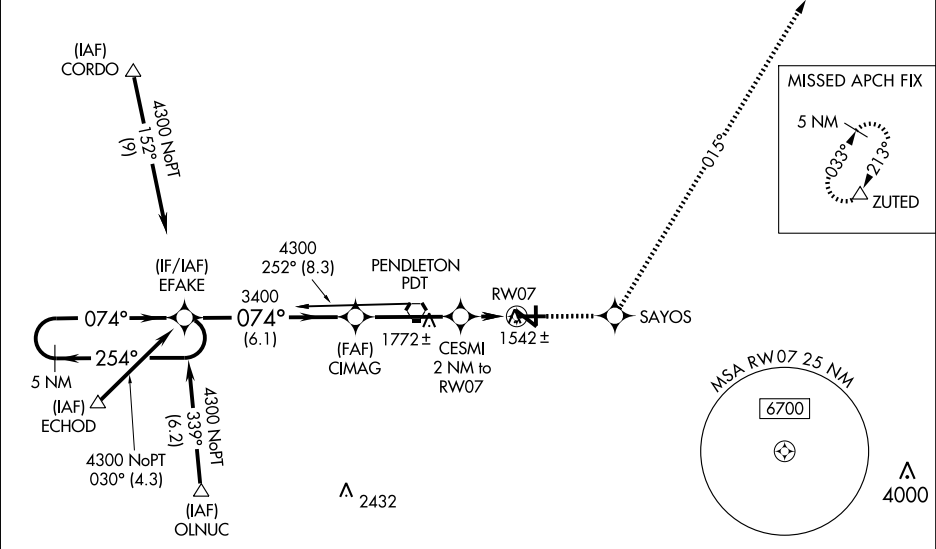
RNAV (GPS) RWY 7
PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

⚠ Inoperative table does not apply to LNAV/VNAV all Cats.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Walla Walla altimeter setting. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities ¾ mile. Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 5000 direct SAYOS and via track 015° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	1736-¾	250 (300-¾)		
LNAV/VNAV DA	1834-1¼	348 (400-1¼)		
LNAV MDA	1880-¾	394 (400-¾)		1880-1¼ 394 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

ELEV 1497 **D**

Runway 7: 3001 x 150. Taxiway 91: 0.83 x 60. Taxiway 25: 150 x 60. Elevation: 1486. Obstacles: 1612, 1601, 1559, 1581 x 100, 134. *LNAV only.

REIL Rwy 11 and 29 **L**
MIRL Rwy 11-29 **L**
HIRL Rwy 7-25 **L**

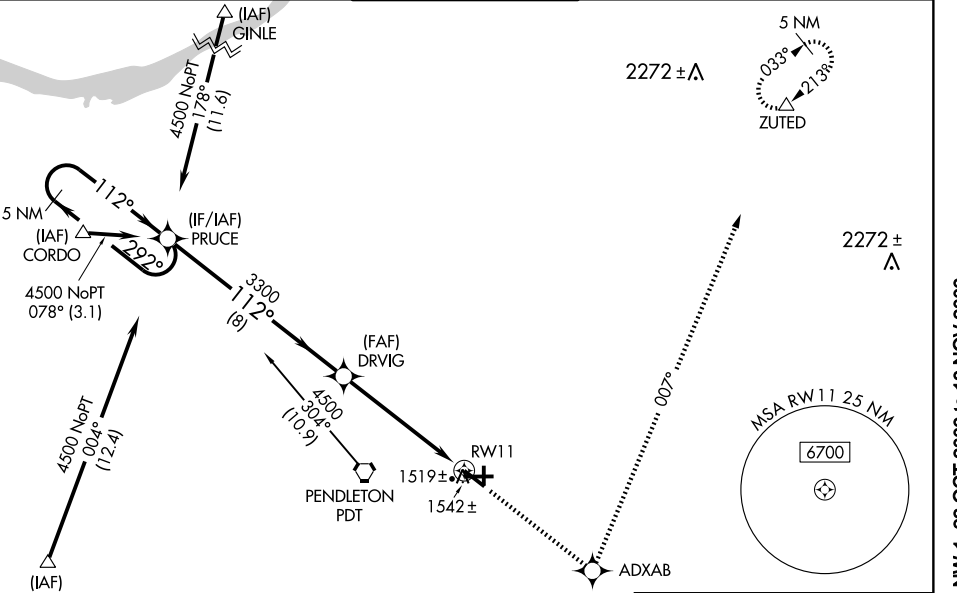
WAAS CH 82712 W11A	APP CRS 112°	Rwy Idg TDZE Apt Elev	5581 1487 1497
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▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

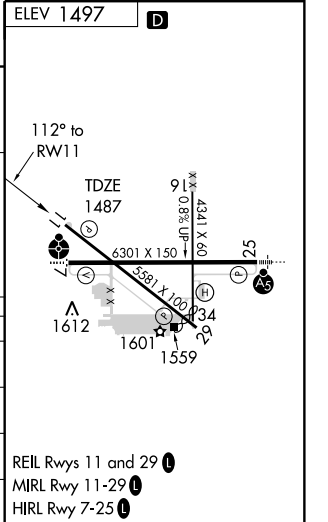
▲ When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct ADXAB and left turn via track 007° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5 NM Holding Pattern				
PRUCE				
5000				
ADXAB				
ZUTED				
5000				
*1 NM to RWY 11				
*LNAV only				
RWY 11				
8 NM				
4.5 NM				
1 NM				
CATEGORY	A	B	C	D
LPV DA	1737-1 250 (300-1)			
LNAV/VNAV DA	1850-1¼ 363 (400-1¼)			
LNAV MDA	1860-1 373 (400-1)			1860-1¼ 373 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)



REIL Rwy 11 and 29
MIRL Rwy 11-29
HIRL Rwy 7-25

WAAS CH 78412 W25A	APP CRS 254°	Rwy Idg 6301 TDZE 1487 Apt Elev 1497
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RNAV (GPS) RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

- T** For inoperative MALSR, increase LNAV/VNAV Cat D visibility to RVR 5000, and LNAV Cat D to RVR 6000.
- A** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.
- When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities 1 mile; inoperative table does not apply.
- VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

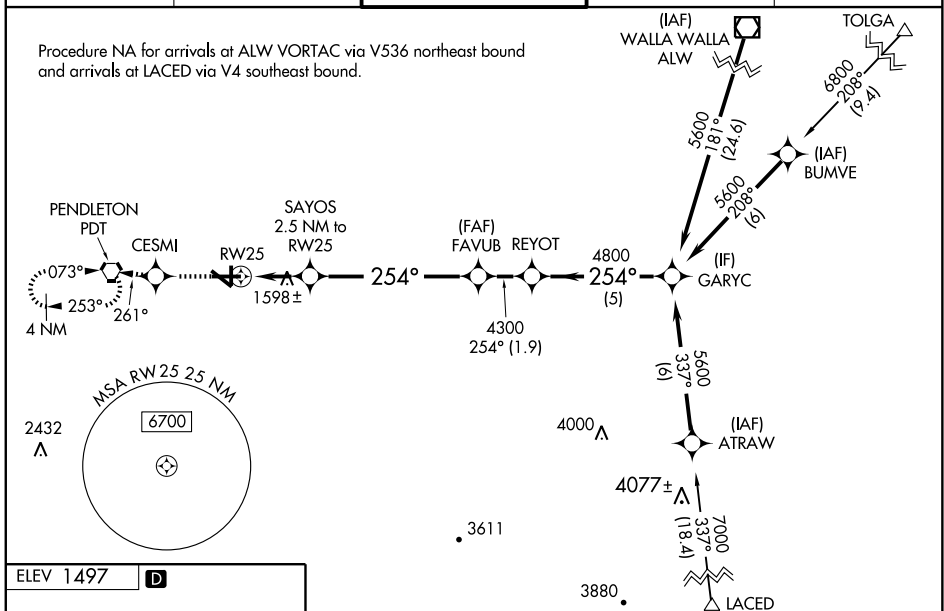
MALSR



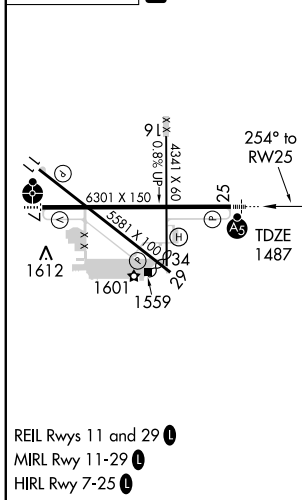
MISSED APPROACH: Climb to 4000 direct CESMI and via track 261° to PDT VORTAC and hold, continue climb-in-hold to 4000.



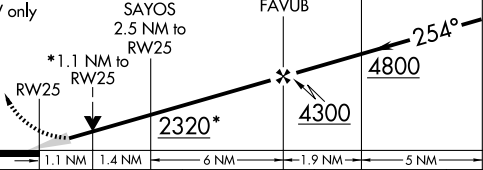
ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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Procedure NA for arrivals at ALW VORTAC via V536 northeast bound and arrivals at LACED via V4 southeast bound.



ELEV 1497	D
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4000 ↑	CESMI 	trk 261°	PDT 	VGSi and RNAV glidepath not coincident.			
* LNAV only				REYOT	GARYC		
				Procedure Turn NA GS 3.00° TCH 55			
CATEGORY	A	B	C	D			
LPV DA	1687/24 200 (200-½)						
LNAV/VNAV DA	1800/24 313 (400-½)					1800/40 313 (400-¾)	
LNAV MDA	1860/24 373 (400-½)					1860/50 373 (400-1)	
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)			

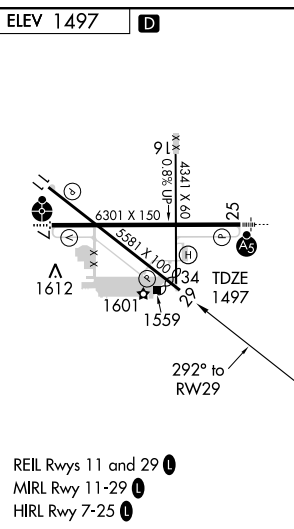
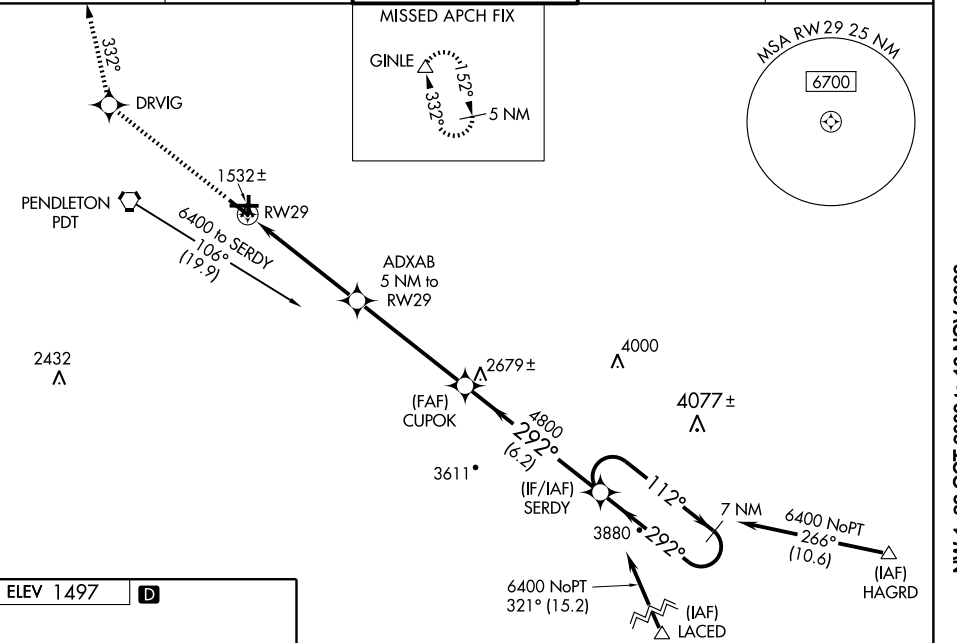
⚠ Inoperative table does not apply.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct DRVIG and via track 332° to GINLE and hold.

ASOS 118.325	CHINOOK APP CON * 133.15 379.15	PENDLETON TOWER * 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5000	DRVIG	trk 332°	GINLE	VGSI and RNAV glidepath not coincident.			
*LNAV only				CUPOK	SERDY	7 NM Holding Pattern	
*0.9 NM to RWY 29				ADXAB 5 NM to RWY 29	112°	6400	GS 3.00° TCH 55
RWY 29				3160*	292°	4800	
0.9				4.1 NM	4.9 NM	6.2 NM	
CATEGORY	A		B	C	D		
LPV DA			1747-1	250 (300-1)			
LNAV/VNAV DA			1801-1	304 (400-1)			
LNAV MDA			1860-1	363 (400-1)	1860-1¼ 363 (400-1¼)		
CIRCLING	1920-1 423 (500-1)		1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)		

NW-1, 22 OCT 2009 to 19 NOV 2009

VORTAC PDT 114.7 Chan 94	APP CRS 073°	Rwy Idg 6301 TDZE 1486 Apt Elev 1497
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PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

VOR RWY 7

T Inoperative table does not apply to S-7 Cat C.
Visibility reduction by helicopter NA

A Visibility reduction by helicopters NA.
When local altimeter setting not received, use Walla Walla altimeter setting and increase all MDA 120 feet, and all visibilities $\frac{1}{2}$ mile.
Inoperative table does not apply when using Walla Walla altimeter setting.
VDP NA when using Walla Walla altimeter setting.

ODALS



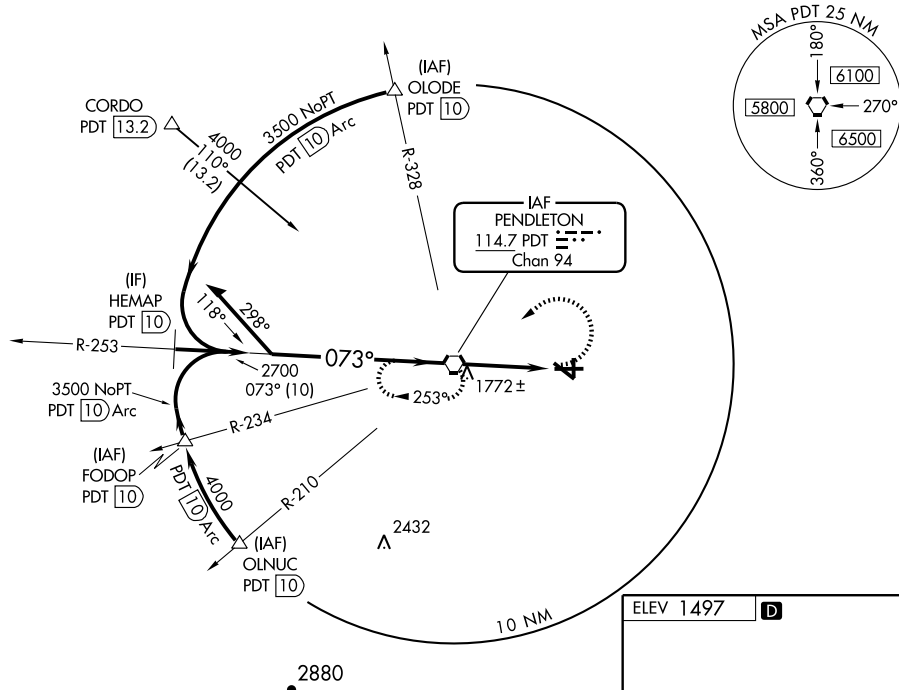
MISSED APPROACH: Climbing left turn to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS
118-325

CHINOOK APP CON★
133.15 379.15

PENDLETON TOWER★
119.7 (CTAF) **L** 257.8

GND CON
121.9 257.8

UNICOM
122 95


Remain
within 10 NM

VORTAC

3500

2700

A schematic diagram of a polymer chain segment. It consists of a horizontal line with a vertical tick mark at the left end and another vertical tick mark further to the right. Below the line, a double-headed arrow spans the distance between the two tick marks, with the text "2 NM" centered below it. To the right of the second tick mark, the line continues to the right edge of the diagram. Below this second segment, another double-headed arrow is shown, with the text "1.6 NM" centered below it.

REIL Rwys 11 and 29 **L**MIRL Rwy 11-29 HIRL Rwy 7-25 **L**

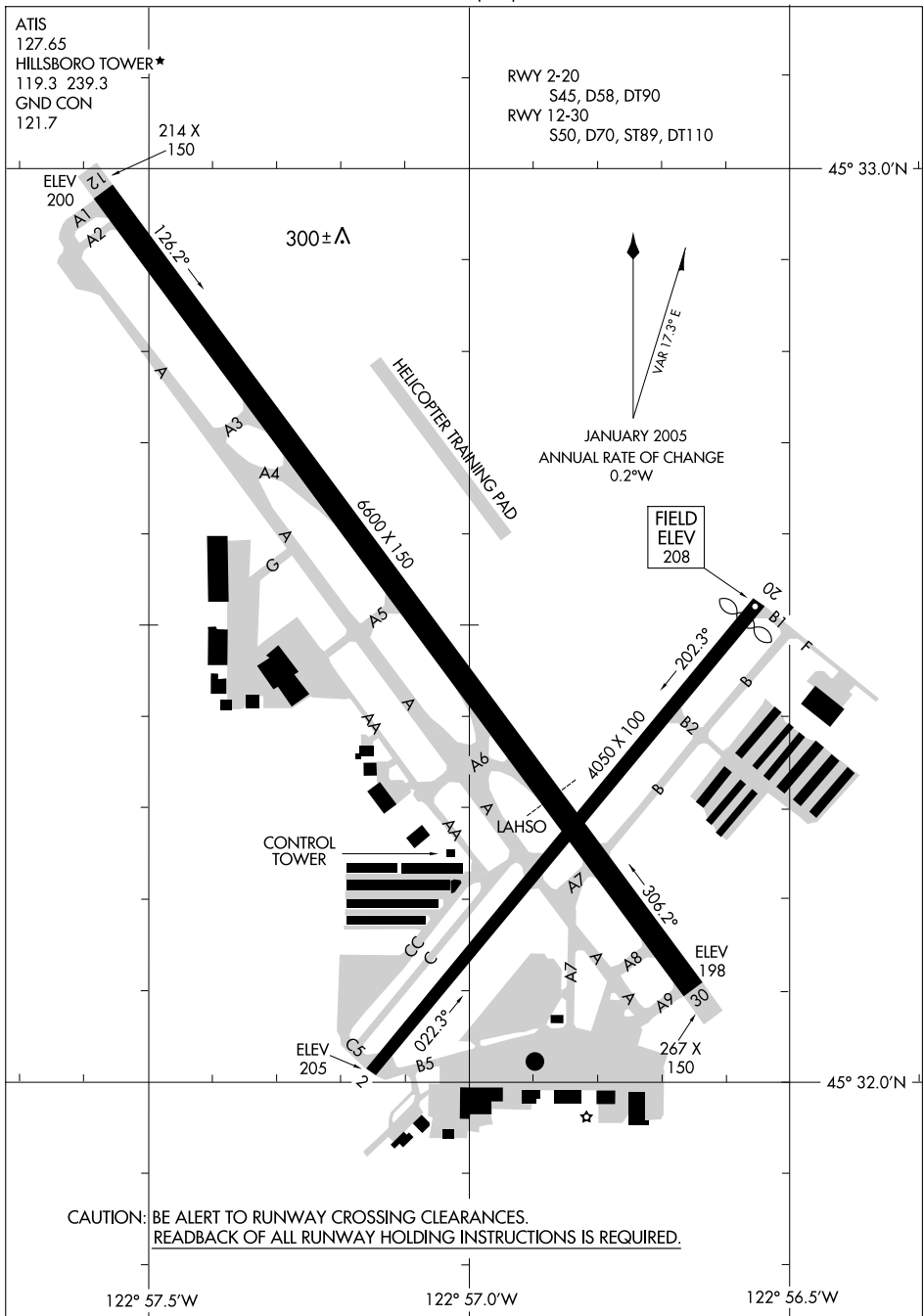
FAF to MAP 3.6 NM

Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

NW-1. 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

AL-5063 (FAA)

 PORTLAND-HILLSBORO (HIO)
 PORTLAND, OREGON


CANBY SEVEN DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)

PORTLAND, OREGON

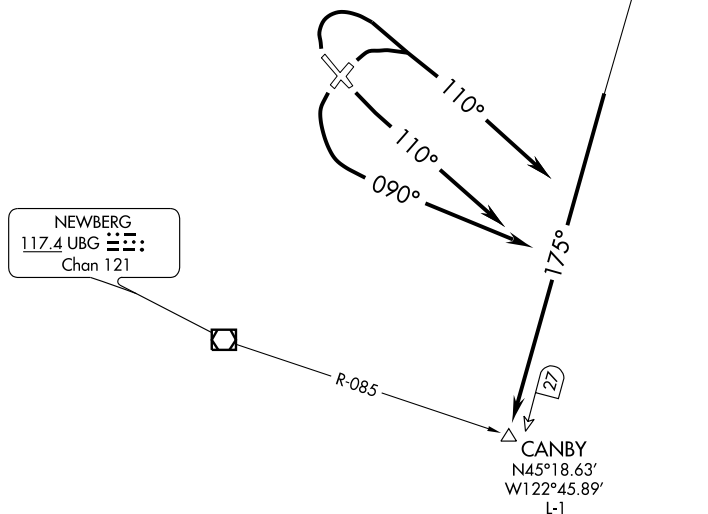
ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

BATTLEGROUND
116.6 BTG
Chan 113

TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700.
Rwy 12: Standard with minimum climb of 308' per NM to 2700.
Rwy 20: Standard.
Rwy 30: Standard with minimum climb of 280' per NM to 2700.

NEWBERG
117.4 UBG
Chan 121



TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.
Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.
Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.
Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.
Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.
Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.
Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.
Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 30: Turn right heading 110°, thence

TAKE-OFF RUNWAY 12: Turn left heading 110°, thence

TAKE-OFF RUNWAY 20: Turn left heading 090°, thence

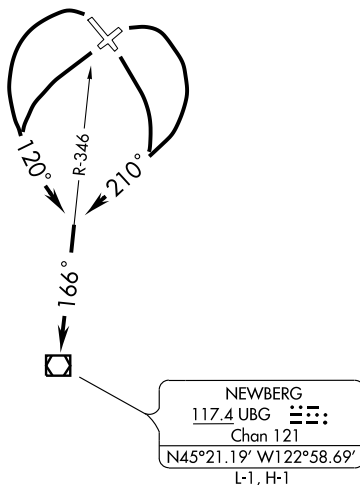
. . . . Intercept and proceed via BTG R-175 to CANBY INT. Thence via (assigned route).

FARMINGTON FOUR DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwys 12, 20: Standard.

Rwy 30: 200-1¼ or standard with minimum climb of 223' per NM to 500.

Alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1600' prior to departure end of runway.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.

Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.

Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.

Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.

Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.

Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.

Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12: Turn right heading 210°, thence

TAKE-OFF RUNWAYS 20, 30: Turn left heading 120°, thence

. . . . Intercept and proceed via UBG R-346 to UBG VOR/DME. Thence via (assigned route).

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOC I-HIO	APP CRS	Rwy Idg	6600
110.7	123°	TDZE	199
		Apt Elev	204

ILS or LOC RWY 12

PORTLAND-HILLSBORO (HIO)

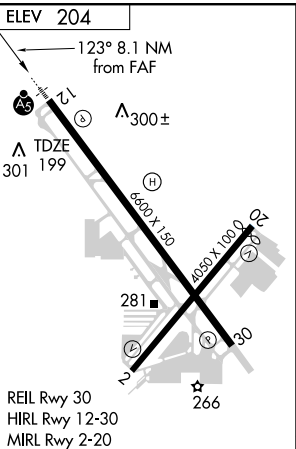
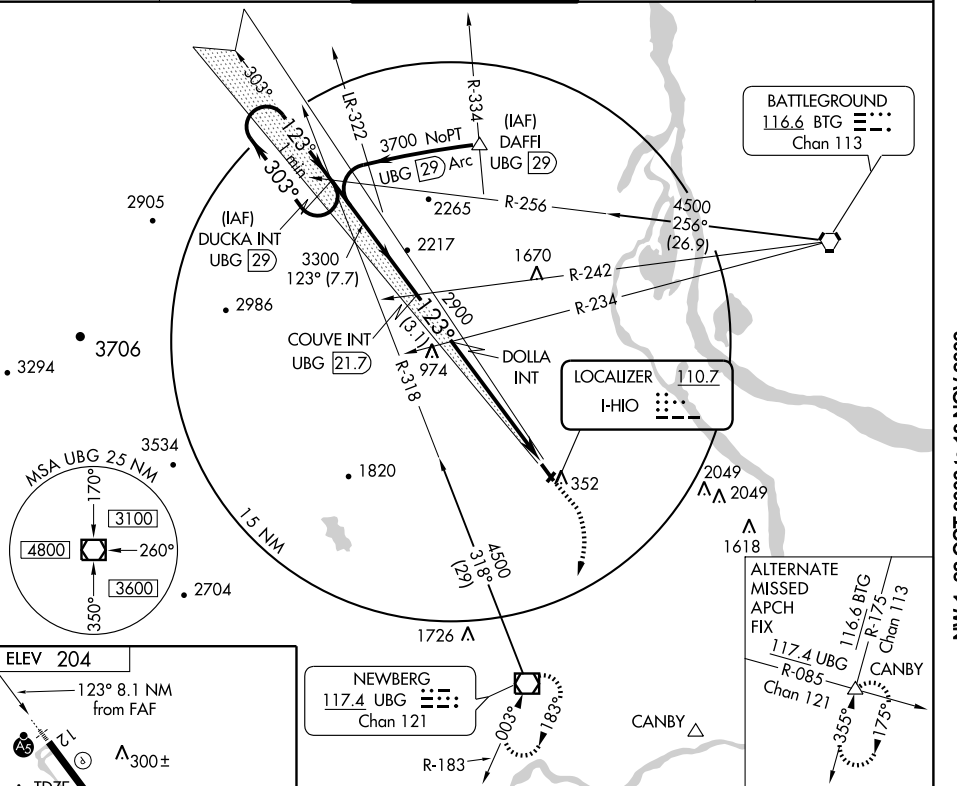
⚠



DUCKA INT requires UBG VOR/DME and BTG VORTAC.
If local altimeter setting not received, use Portland Intl
altimeter setting and increase all DAs/MDAs 60 feet.

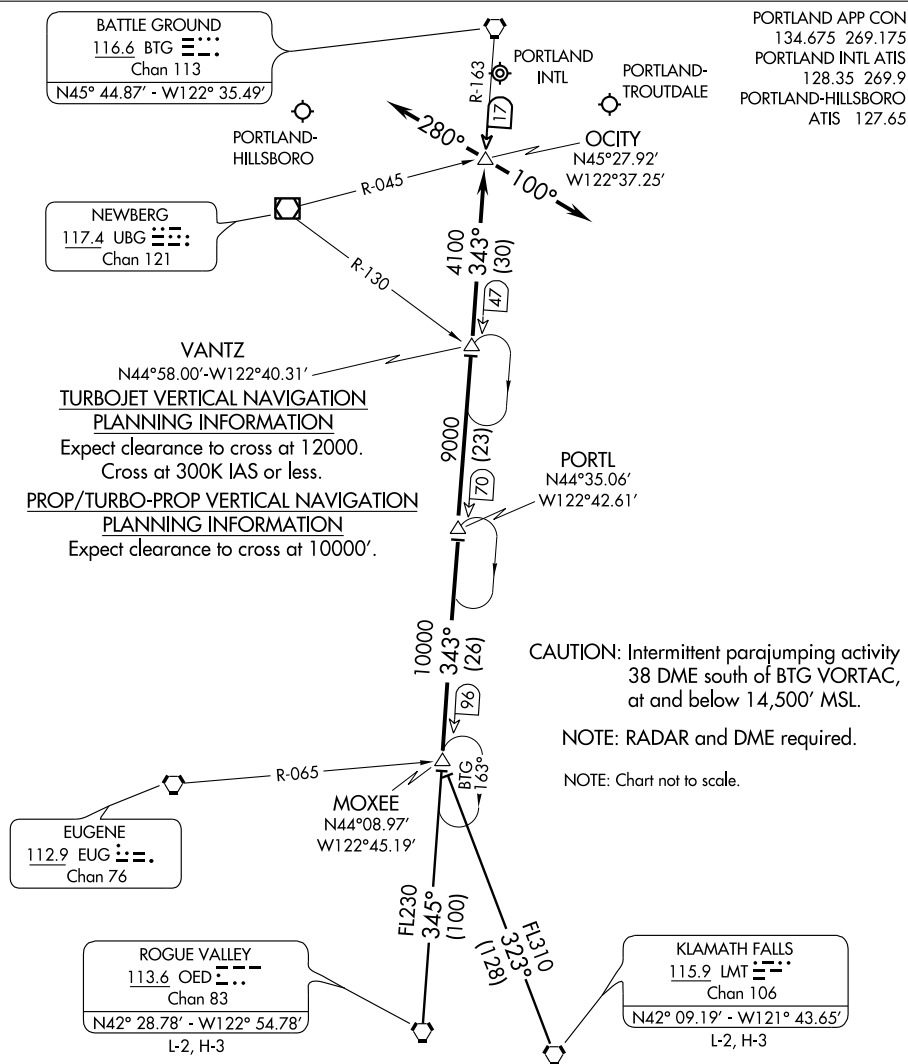
MAISR

MISSED APPROACH: Climb to 1000 then climbing
right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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One Minute Holding Pattern	DUCKA INT UBG <u>29</u>			COUVE INT UBG <u>21.7</u>			DOLLA INT 2900			<div><div><div>1000</div><div>↑</div></div><div><div>3000</div><div></div></div><div><div>UBG</div><div></div></div></div> <div>117.4</div>		
	3700 ← 303° 123° →			123° 3300			2900			VGSI and ILS glidepath not coincident.		
	GS 3.00° TCH 54											
			7.7 NM			3.1 NM			8.1 NM			
CATEGORY	A			B			C			D		
S-ILS 12	399-½ 200 (200-½)											
S-LOC 12	1140-¾ 941 (1000-¾)						1140-2¼ 941 (1000-2¼)			1140-2½ 941 (1000-2½)		
CIRCLING	1140-1¼ 936 (1000-1¼)						1140-2¾ 936 (1000-2¾)			1140-3 936 (1000-3)		



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

PND NDB 356	APP CRS 122°	Rwy Idg TDZE Apt Elev	N/A N/A 204
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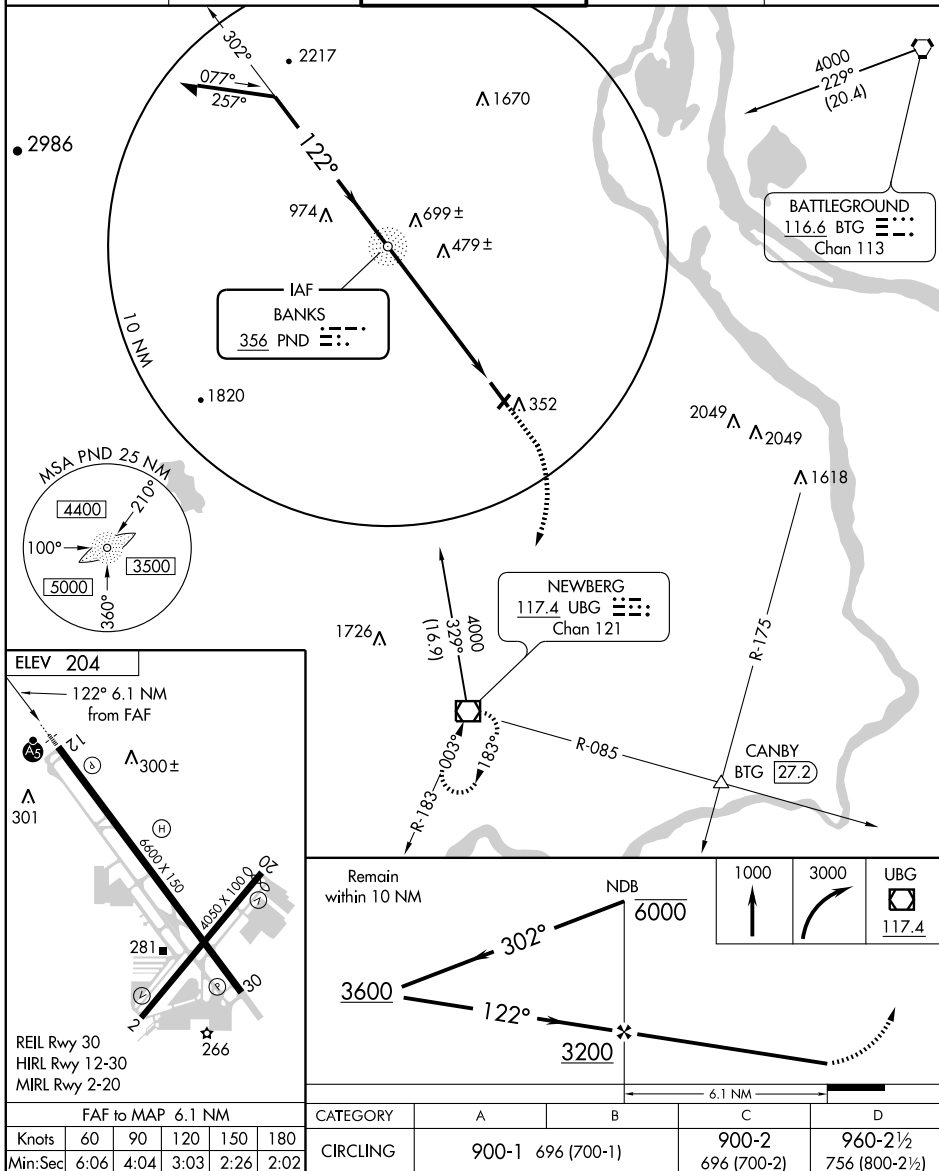
NDB-B

PORTLAND-HILLSBORO (HIO)



MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA.

⚠ If local altimeter setting not received, use Portland Intl altimeter setting and increase all DAs/MDAs 60 feet.

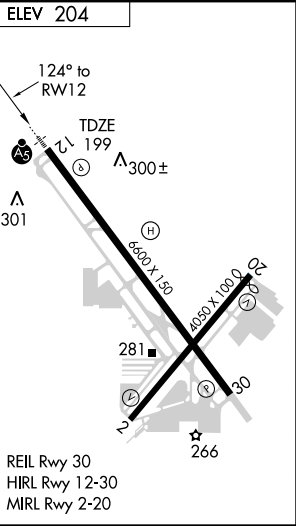
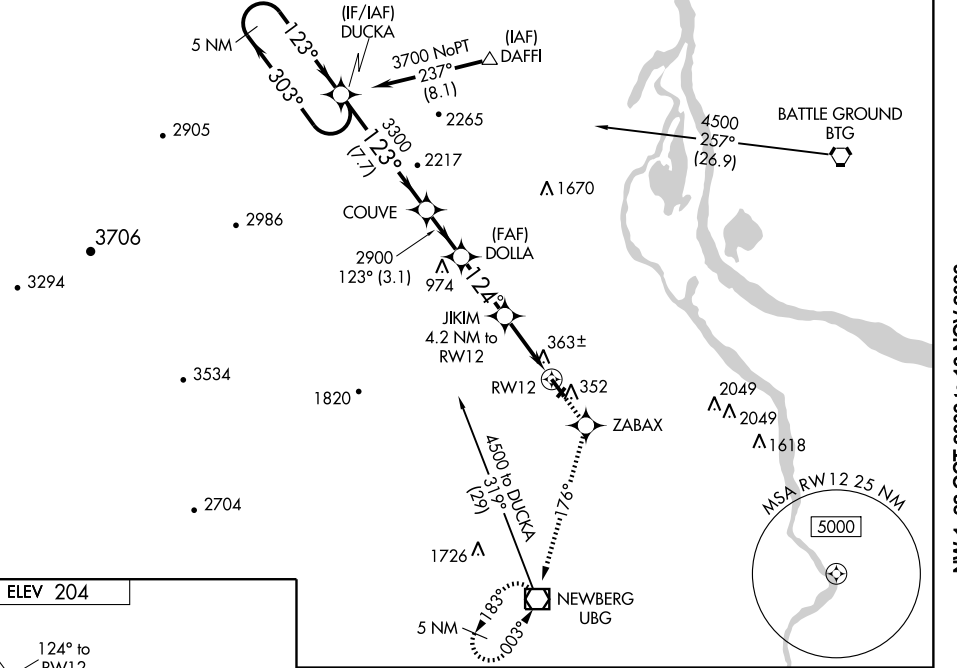
VDP NA when using Portland Intl altimeter setting.

For inoperative MALSR, increase LPV all Cats visibility to 1½, and LNAV Cat D visibility 1¼. Baro-VNAV NA when using Portland Intl altimeter setting.

MALSR

MISSED APPROACH: Climb to 3000 direct ZABAX and via 176° track to UBG VOR/DME and hold, continue climb-in-hold to 3000.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
CATEGORY	A	B	C	D
LPV DA	598-1 399 (400-1)			
LNAV/VNAV DA	651-1 452 (500-1)			
LNAV MDA	620-1½ 421 (500-1½)		620-¾ 421 (500-¾)	620-1 421 (500-1)
CIRCLING	680-1½ 476 (500-1½)		760-2 556 (600-2)	

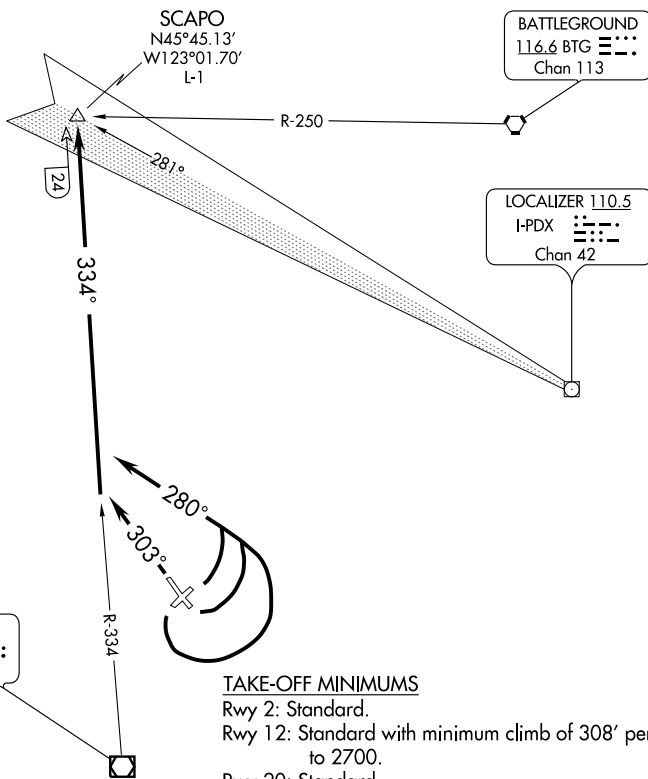
NW-1. 22 OCT 2009 to 19 NOV 2009

SCAPO FOUR DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6



TAKE-OFF OBSTACLE NOTES

- Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.
- Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.
Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.
- Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.
Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.
Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.
- Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL.
Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12, AND 20: Turn left heading 280°, thence . . .

TAKE-OFF RUNWAY 30: Climb via heading 303°, thence . . .

. . . Intercept and proceed via UBG R-334 to SCAPO INT, thence via (assigned route).

VOR/DME UBG 117.4 Chan 121	APP CRS 346°	Rwy Idg TDZE Apt Elev	N/A N/A 204
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VOR/DME-C
PORTLAND-HILLSBORO (HIO)



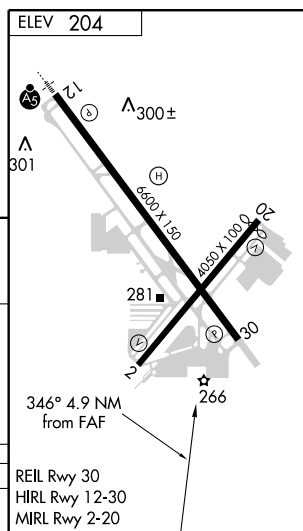
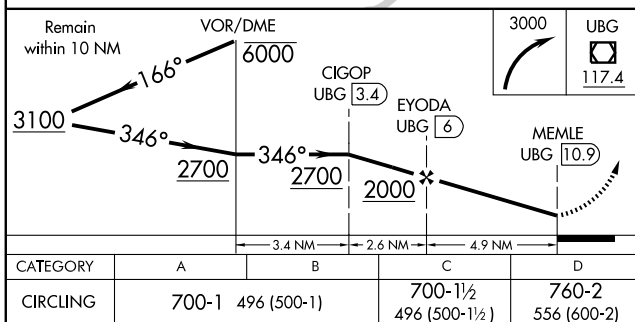
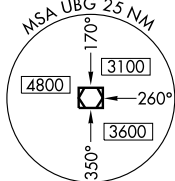
MISSED APPROACH: Climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS
127.65

PORTLAND APP CON
126.0 284.6

HILLSBORO TOWER★
119.3 (CTAF) **L** 239.3

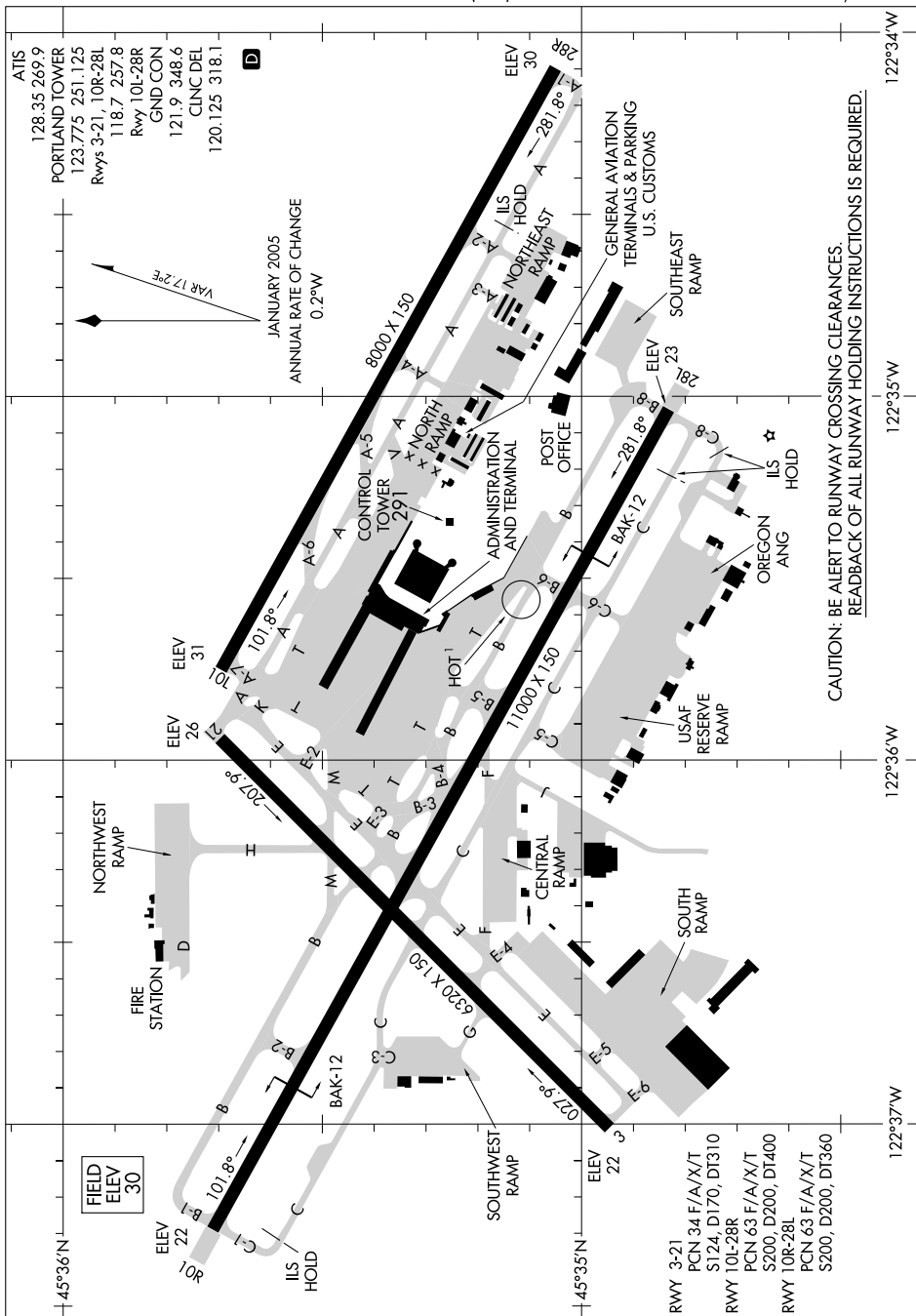
GND CON
121.7

UNICOM
122.95

07275

AL-330 (FAA)

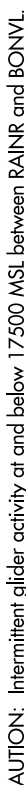
PORTLAND INTL (PDX)
PORTLAND, OREGON



ST-330 (FAA)

PORTLAND, OREGON

.....From over BUNVL :
Landing East - via PDX R-079 to REEDI DME fix. Depart REEDI DME fix heading 280° for radar vectors to final approach course.
Landing West - via PDX R-079 to REEDI DME fix, for radar vectors to final approach course.



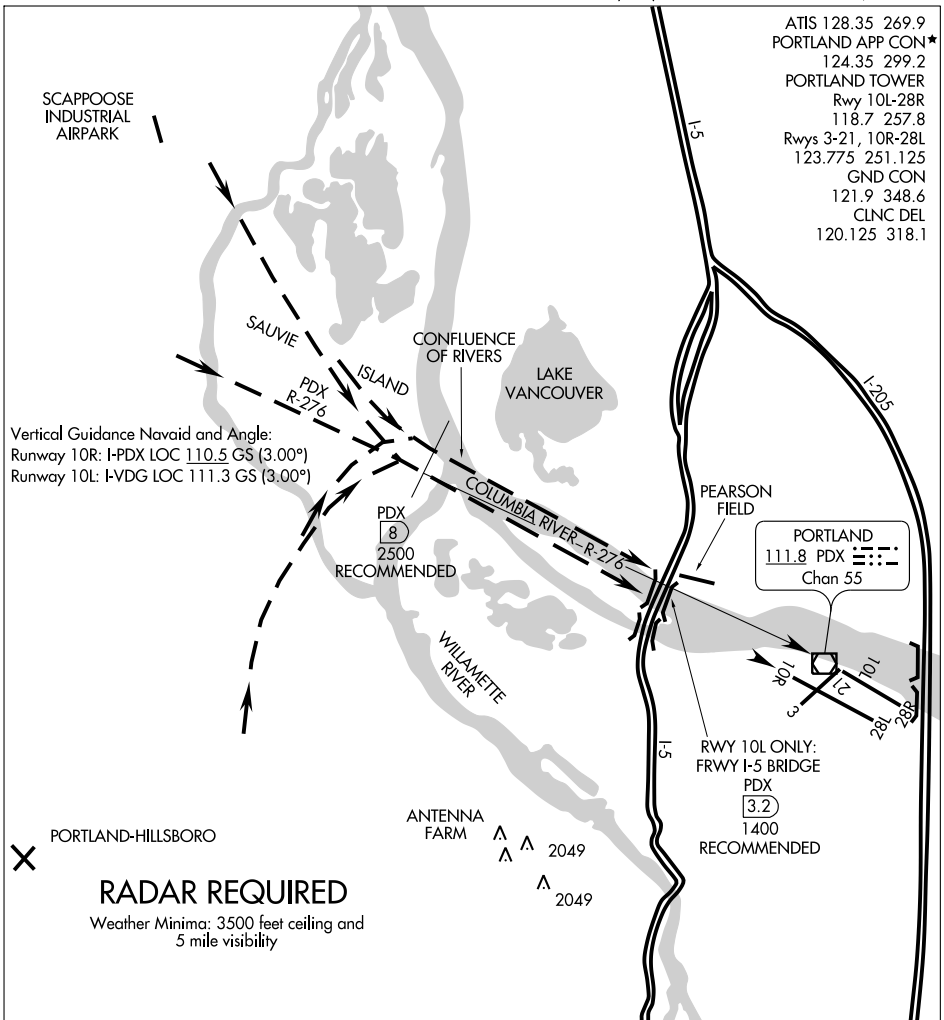
NW-1. 22 OCT 2009 to 19 NOV 2009

COLUMBIA VISUAL RWY 10L/R

AL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



PROCEDURE NOT AUTHORIZED AT NIGHT.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.



SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

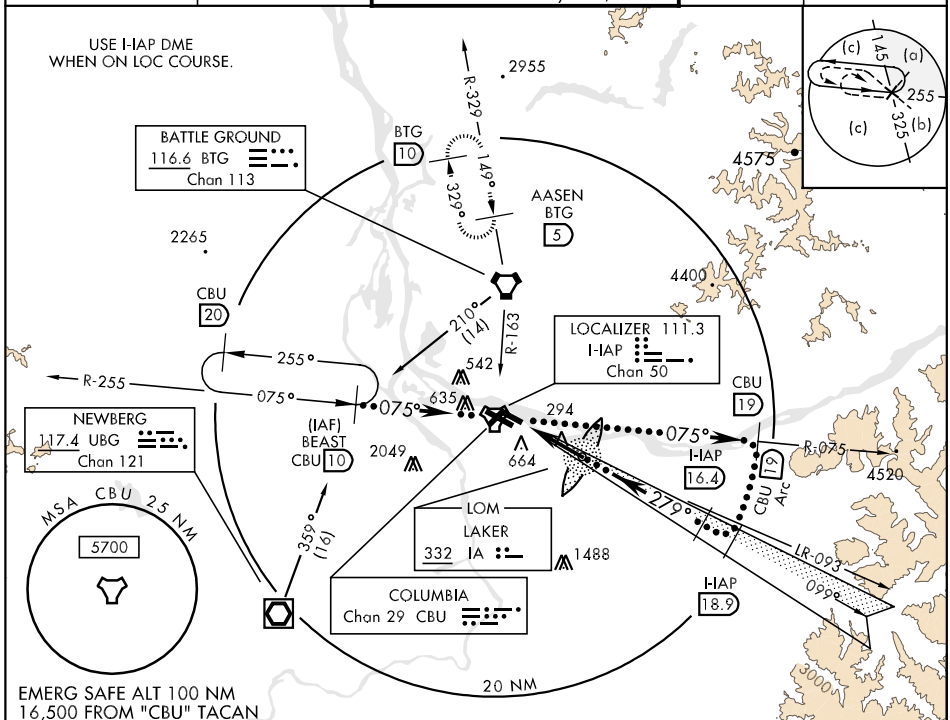
LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

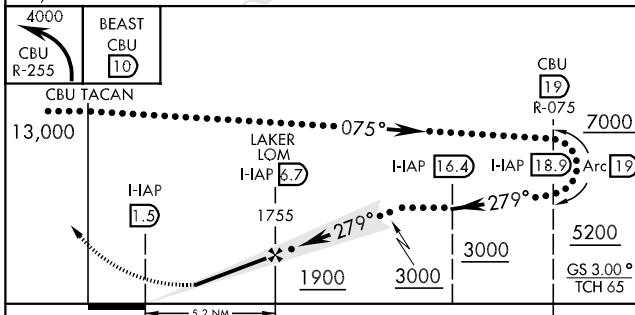
LOCALIZER I-AP	APCH CRS	Rwy Idg	N/A		
111.3	279°	TDZE	N/A		
Chn 50		Arot Elev	30	JAL-330 [USAF]	PORTLAND INTL (KPDX)

		MISSED APPROACH: Climbing left turn to 4000 via CBU TACAN R-255 to BEAST and hold, or when directed by ATC climbing right turn to 4000 via BTG VORTAC R-163 to BTG then via BTG R-329 to AASEN and hold. Hold NW, RT, 149° inbound.			
ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L		GND CON 121.9 348.6	CLNC DEL 120.125 318.1

USE I-IAP DME
WHEN ON LOC COURSE.



EMERG SAFE ALT 100 NM
16,500 FROM "CBU" TACAN



CATEGORY	C	D	E
S-ILS 28R	NOT AUTHORIZED		
S-LOC 28R	NOT AUTHORIZED		
CIRCLING	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)

ELEV 30

424 ±

101

10R

10L

11,000

150

6000 x 150

96 ±

127 ±

28R

28L

279° 5.2 NM from LOM

REIL Rwy 3-21
TDZ/CL 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R & 10R-28L

LOC FAF to MAP 5.2 NM					
Knots	120	140	160	180	200
Min:Sec	2:36	2:14	1:57	1:44	1:34

LOCALIZER I-PDX 110.5 Chan 42	APCH CRS 101°	Rwy Idg 11,000 TDZE 24 Arprt Elev 30
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JAL-330 [USAF]

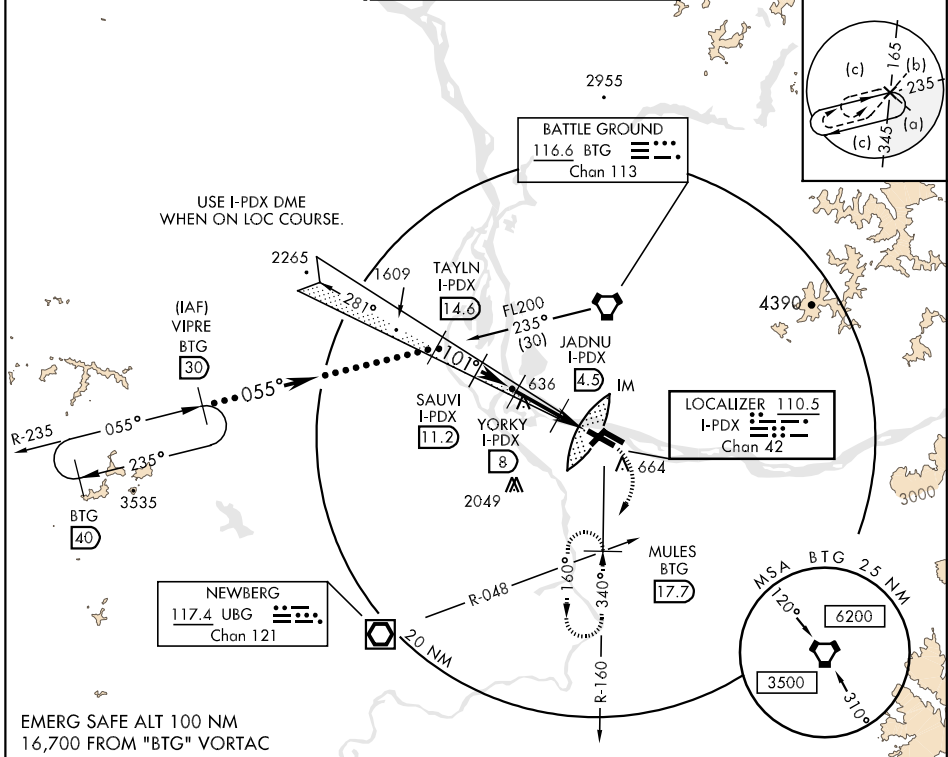
PORTLAND INTL (KPDJ)

* When ALS inop, increase RVR to 40 and vis to 3/4 mile.
 ** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1 1/4 miles.

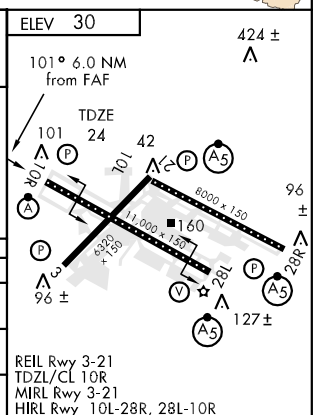
ALSF-2

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG VORTAC R-160 to MULES and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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<p>VIPRE BTG FL200</p> <p>30</p> <p>055°</p> <p>3800</p> <p>GS 3.00° TCH 53</p> <p>VGSI and ILS glidepath not coincident.</p> <p>† LOC ONLY</p>		<p>TAYLN I-PDX</p> <p>14.6</p> <p>101°</p> <p>3000</p>	<p>SAUVI I-PDX</p> <p>11.2</p> <p>2000</p>	<p>YORKY I-PDX</p> <p>8</p> <p>860+</p> <p>3.5 NM</p>	<p>JADNU I-PDX</p> <p>4.5</p> <p>4.4</p> <p>2.4 NM</p>	<p>I-PDX</p> <p>2</p> <p>IM</p> <p>.1</p>	<p>900</p> <p>4000</p> <p>BTG R-160</p> <p>MULES BTG</p> <p>17.7</p> <p>I-PDX DME</p>
CATEGORY	C	D	E				
S-ILS 10R *	224/18	200 (200-¾)	224/24 200 (200-½)				
S-LOC/DME 10R **	380/24 356 (400-½)	380/40 356 (400-¾)					
CIRCLING	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)				



NW-1-22 OCT 2009 to 19 NOV 2009

TACAN CBU Chan 29	APCH CRS 106°	Rwy ldg 11,000 TDZE 20 Arpt Elev 30
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JAL-330 [USAF]

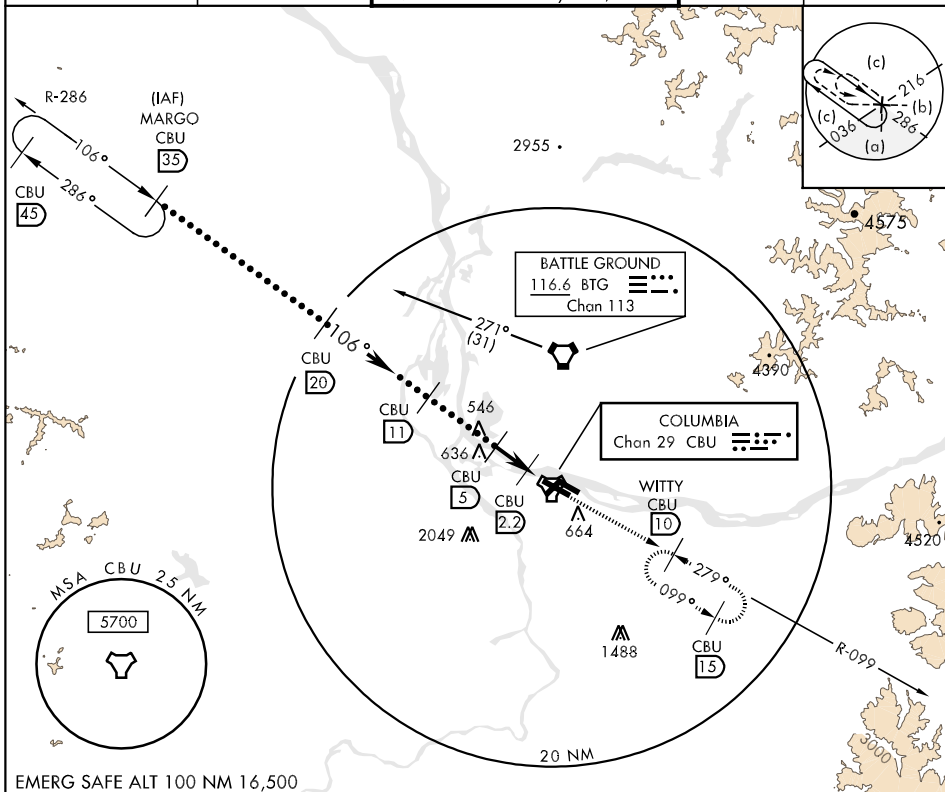
PORTLAND INTL (KPDJ)

V * When ALS inop, increase CAT C vis ½ mile,
CAT DE 1 mile.

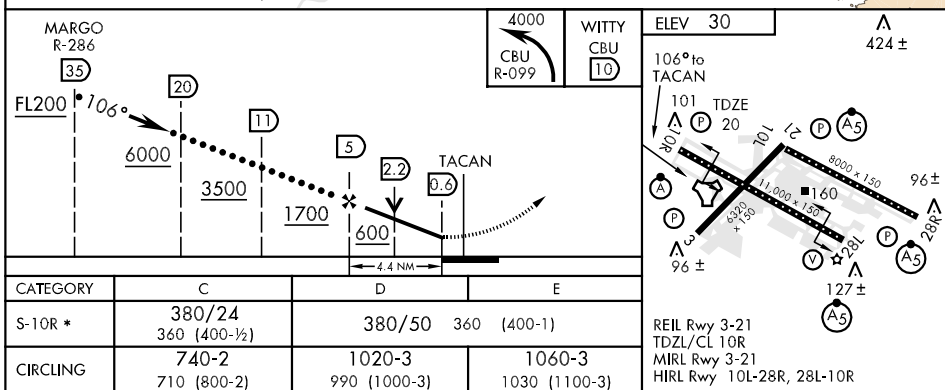


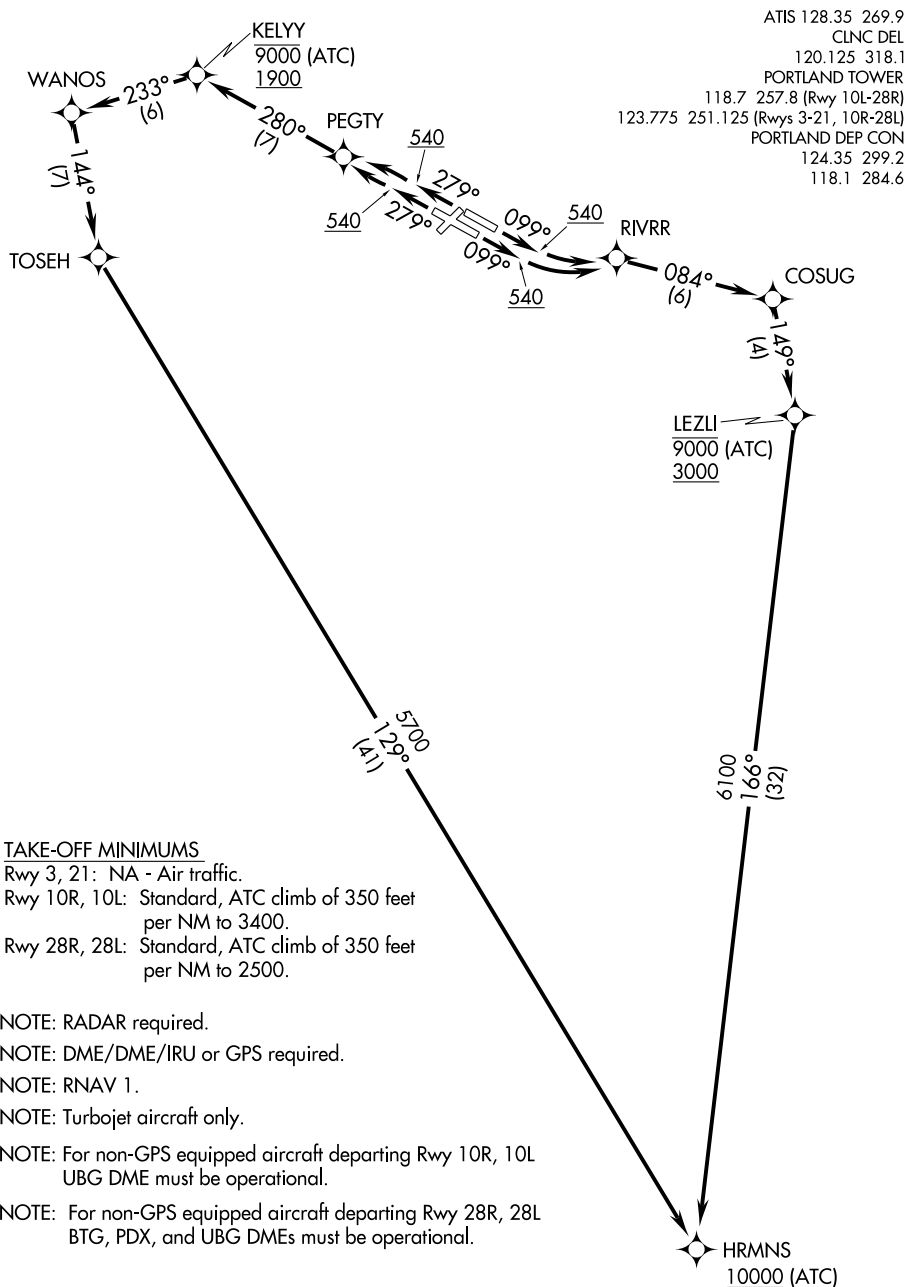
MISSED APPROACH: Climb to 4000 via CBU TACAN
R-099 to WITTY/CBU 10 DME and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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EMERG SAFE ALT 100 NM 16,500







DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

....maintain assigned altitude, expect filed altitude 10 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.



Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

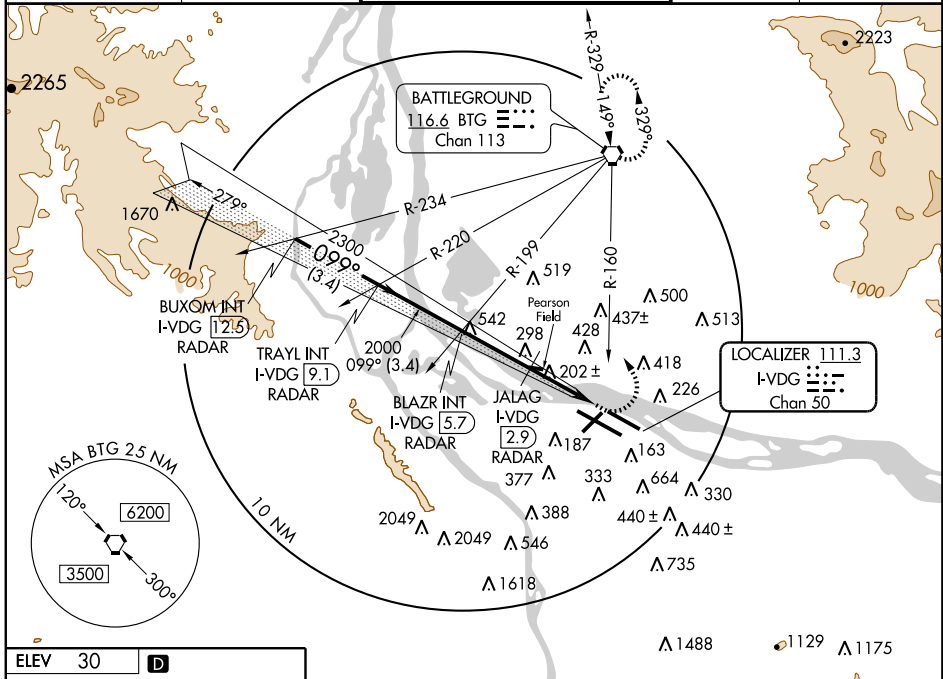
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

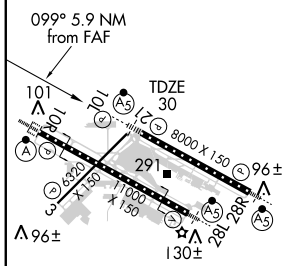
LOC/DME I-VDG <u>111.3</u> Chan 50	APP CRS 099°	Rwy Idg 8000 TDZE 30 Apt Elev 30
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ILS or LOC RWY 10L
PORTLAND INTL (PDX)

				MISSED APPROACH: Climb to 700, then climbing left turn to 4000 via BTG R-160 to BTG VORTAC and hold.	
ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1



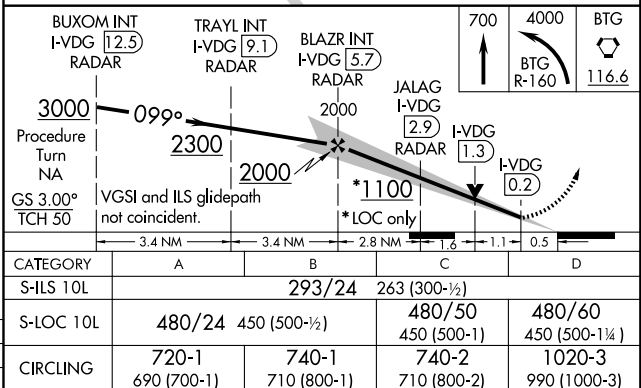
ELEV	30	D
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

RADAR or DME REQUIRED




LOC/DME I-PDX <u>110.5</u> Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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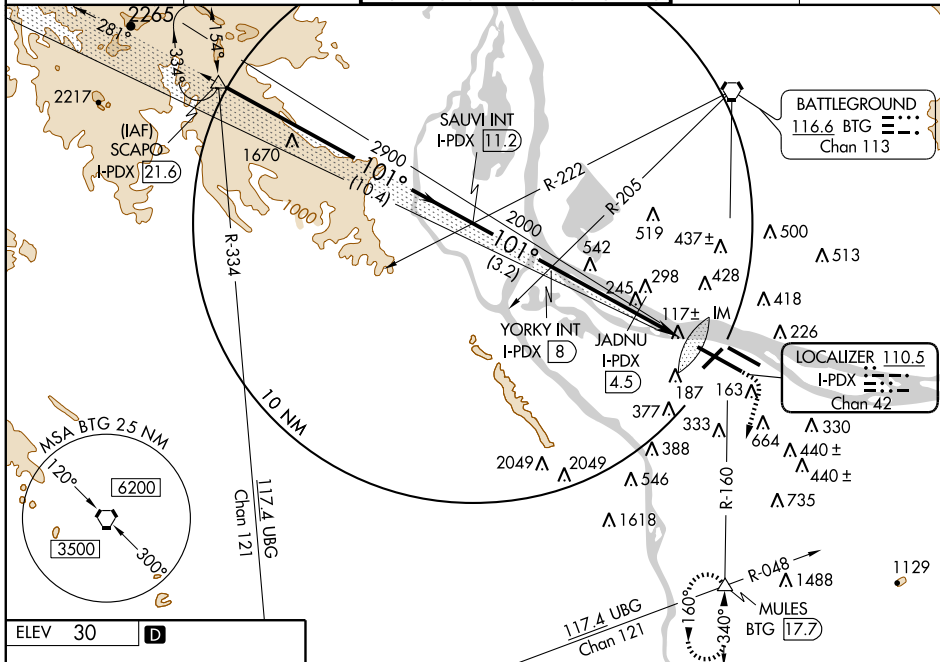
ILS or LOC RWY 10R
PORTLAND INTL (PDX)

When control tower reports construction equipment is operating within the area, Cat II and III minimums not authorized.

▼	For inoperative ALSF-2	increase S-LS Cat E visibility to RVR 4000.
▲	For inoperative ALSF-2	increase S-LOC Cat E visibility to 3 miles.
	For inoperative ALSF-2	increase DME minimums S-LOC 10R Cat E visibility to RVR 6000.

ALSF-2
 **MISSED APPROACH:** Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125	GND CON 121.9 348.6	CINC DEL 120.125 318.1
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REIL Rwys 3 and 21
 TDZ/CL Rwy 10R
 MIRL Rwy 3-21
 HIRL Rwys 10L-28R and 10R-28L

CATEGORY		A		B		C		D		E			
S-ILS 10R		224/18		200 (200-½)						224/24 200 (200-½)			
S-LOC 10R		860/24 836 (900-½)	860/40 836 (900-¾)	860-2 836 (900-2)		860-2¼ 836 (900-2¼)		860-2½ 836 (900-2½)		860-2½ 836 (900-2½)			
CIRCLING		860-1 830 (900-1)	860-1¼ 830 (900-1¼)	860-2½ 830 (900-2½)		1020-3 990 (1000-3)		1060-3 1030 (1100-3)		1060-3 1030 (1100-3)			
DME MINIMUMS													
S-LOC 10R		380/24		356 (400-½)				380/40		356 (400-¾)			
CIRCLING		720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)		1020-3 990 (1000-3)		1060-3 1030 (1100-3)		1060-3 1030 (1100-3)			

ILS or LOC RWY 28L PORTLAND INTL (PDX)

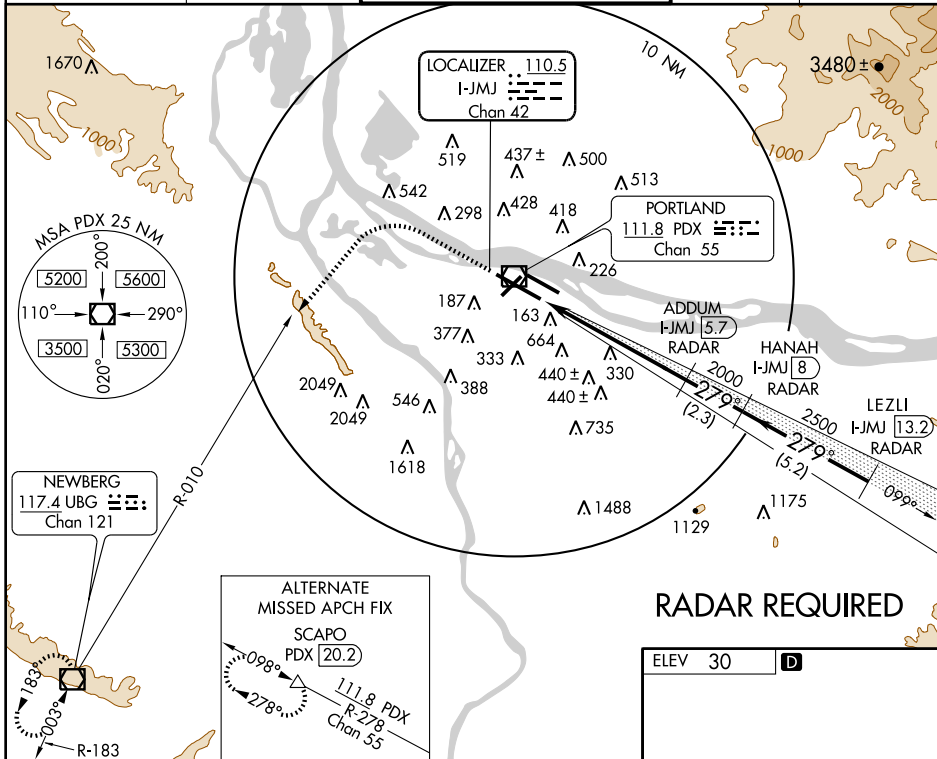
LOC/DME I-JMJ 110.5 Chan 42	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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⚠ RADAR or DME required. For inoperative MALSR, increase S-ILS visibility to RVR 5000 all Cats and S-LOC Cat E visibility to 2 miles. Autopilot coupled approach NA below 580.

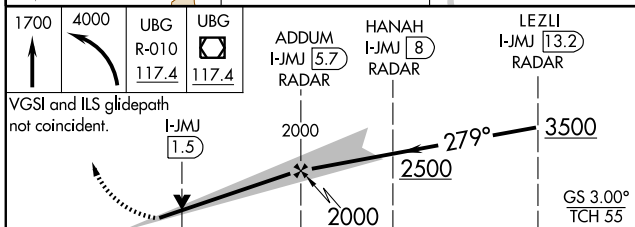
MALSR


MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 via UBG R-010 to UBG VOR/DME and hold.

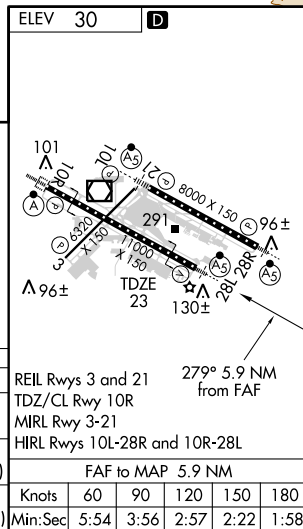
ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251,125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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RADAR REQUIRED



CATEGORY	A	B	C	D	E
S-ILS-28L	306/24 283 (300-1/2)				
S-LOC-28L	620/24	597 (600-1/2)	620/50 597 (600-1)	620/60 597 (600-1 1/4)	620-1 1/2 597 (600-1 1/2)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)



REIL Rwys 3 and 21 TDZ/CL Rwy 10R MIRL Rwy 3-21 HRL Rwys 10L-28R and 10R-28L	FAF to MAP 5.9 NM				
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

LOC/DME HAP	APP CRS	Rwy Idg	8000
111.3	279°	TDZE	30
Chan 50		Apt Elev	30

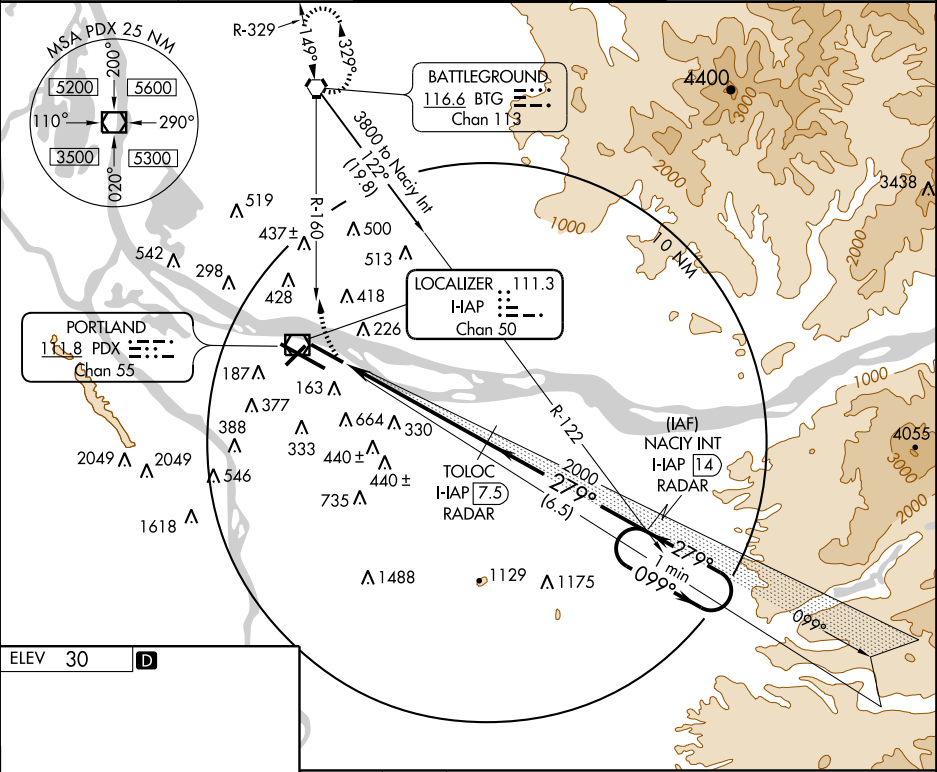
ILS or LOC RWY 28R
PORTLAND INTL (PDX)

⚠ Inoperative table does not apply to S-ILS all Cats.
⚠ For inoperative MALSR increase S-LOC Cat A and B visibility to 1.
Radar or DME required.

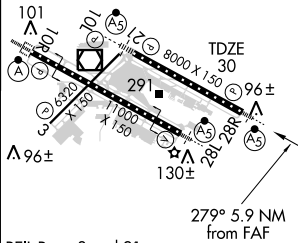
MALSR

MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC and hold.

ATIS	PORTLAND APP CON	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6	120.125 318.1



ELEV 30	D
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

4000

BTG 116.6

BTG R-160

Use I-HAP DME when on the localizer course.

I-HAP 1.6

HAP 3.2

TOLOC I-HAP 7.5 RADAR

NACY INT I-HAP 14 RADAR

One Minute Holding Pattern

099° →

← 279°

3800

GS 3.00°

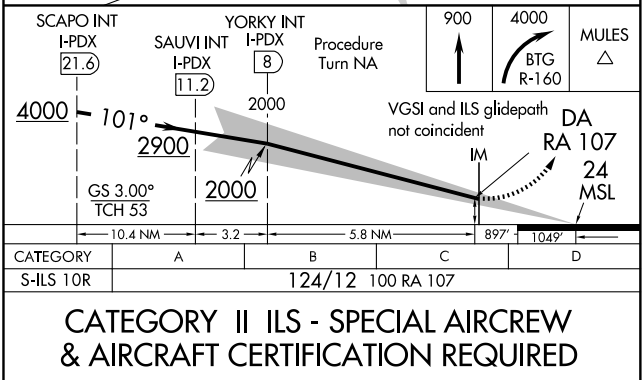
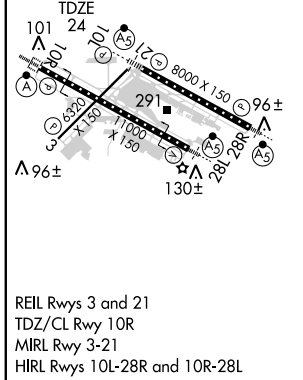
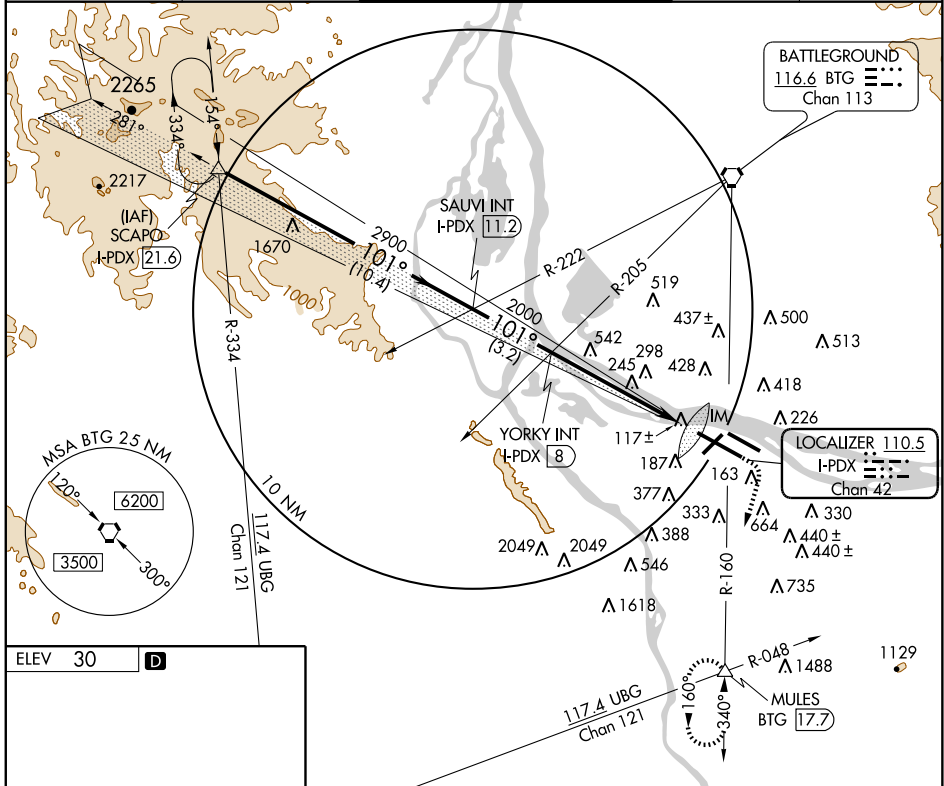
TCH 65

CATEGORY	A	B	C	D
S-ILS 28R	280/40 250 (300-¾)			
S-LOC 28R	600/40	570 (600-¾)	600/50 570 (600-1)	600/60 570 (600-1½)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

LOC/DME I-PDX <u>110.5</u> Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
--	------------------------	--

ILS RWY 10R (CAT II)
PORTLAND INTL (PDX)

<div><div></div><div></div></div>	When control tower reports construction equipment is operating within the area, Cat II and III minimums not authorized.	ALS-F-2 <div><div>A</div><div></div></div>	MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.	ATIS		PORTLAND APP CON★		PORTLAND TOWER		GND CON		CLNC DEL	
				128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6	120.125 318.1				



LOC/DME I-PDX <u>110.5</u> Chan 42	APP CRS 101°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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ILS RWY 10R (CAT III)

PORTLAND INTL (PDX)

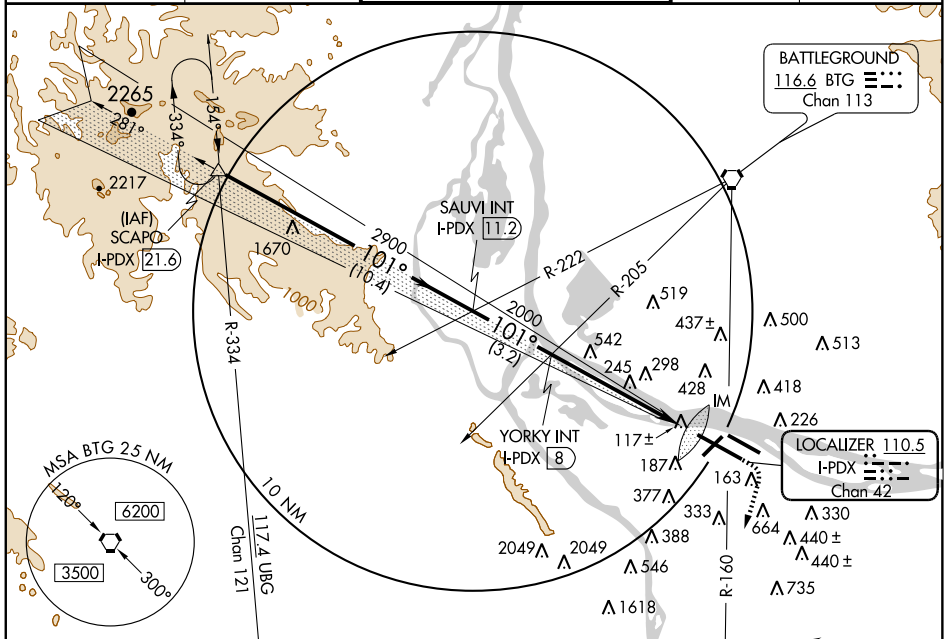
T	When control tower reports construction equipment is operating within the area, Cat II and III minimums not authorized.
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ALSF-2

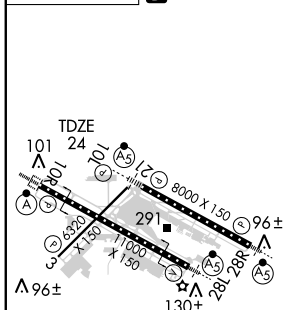


MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME and hold.

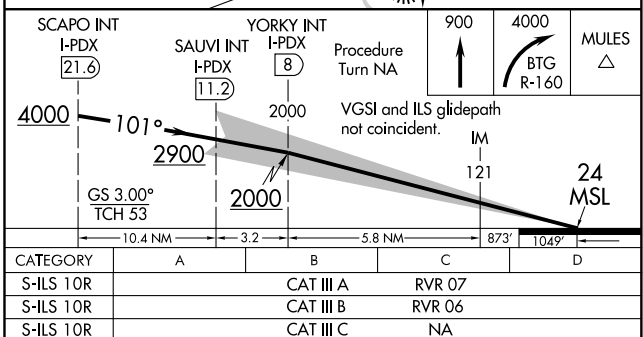
ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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ELEV	30
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REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L



CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

NW-1. 22 OCT 2009 to 19 NOV 2009



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, then via 084° track to COSUG, then via 027° track to cross OKKOR at or below 9000, then via 045° track to LAVAA, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, then via 084° track to COSUG, then via 027° track to cross OKKOR at or below 9000, then via 045° track to LAVAA, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, then via 280° track to cross KELYY at or below 9000, then right turn via 013° track to ARUPT, then via 073° track to LAVAA, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, then via 280° track to cross KELYY at or below 9000, then right turn via 013° track to ARUPT, then via 073° track to LAVAA, thence....

....via (Transition), maintain FL190, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

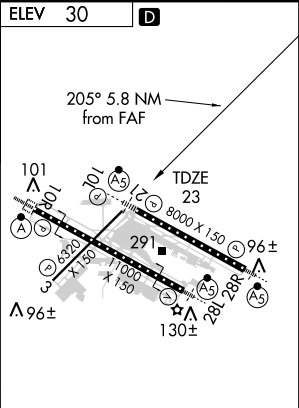
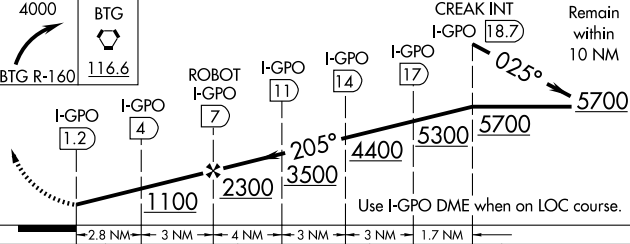
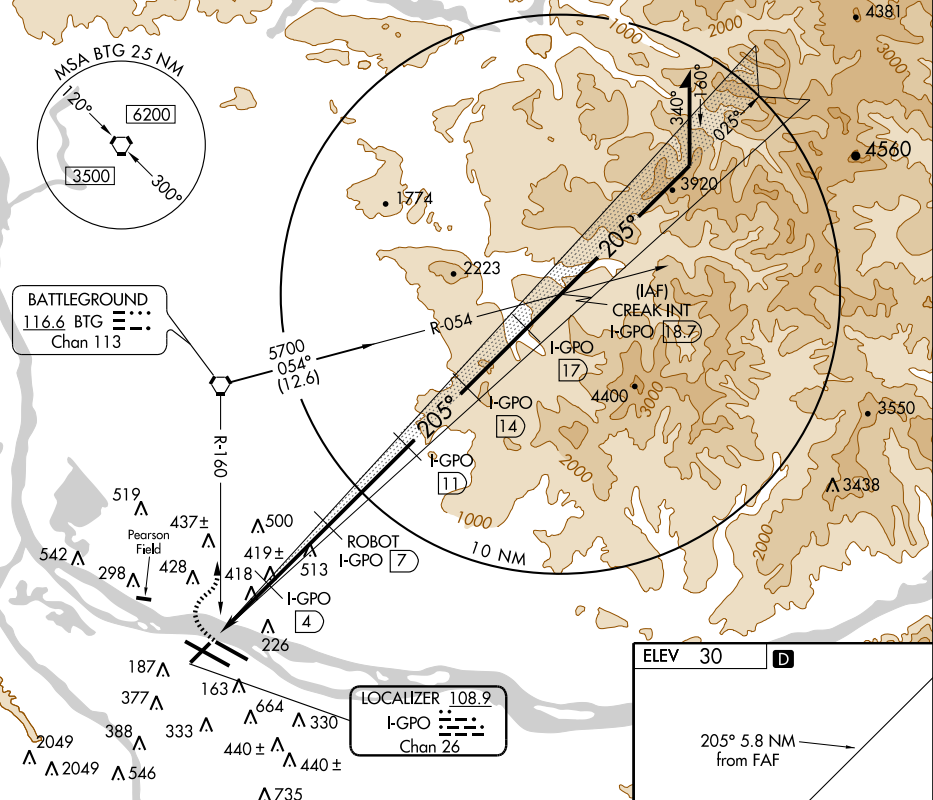
PENDLETON TRANSITION (LAVAA1.PDT)

YAKIMA TRANSITION (LAVAA1.YKM)

LOC/DME I-GPO	APP CRS	Rwy Idg	6320
108.9	205°	TDZE	23
Chan 26		Apt Elev	30

MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS	PORTLAND APP CON *	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251,125	121.9 348.6
				120.125 318.1



CATEGORY	A	B	C	D
S-21	680-1	657 (700-1)	680-1 3/4 657 (700-1 3/4)	680-2 657 (700-2)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

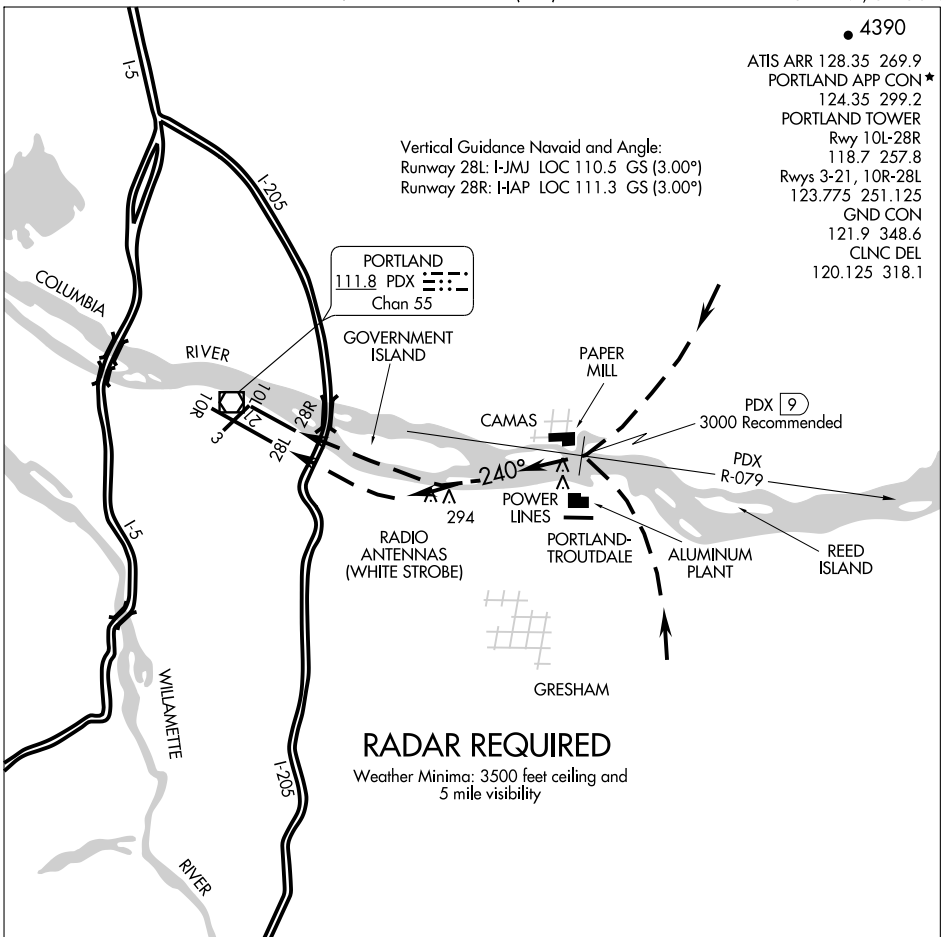
NW-1, 22 OCT 2009 to 19 NOV 2009

MILL VISUAL RWY 28L/R

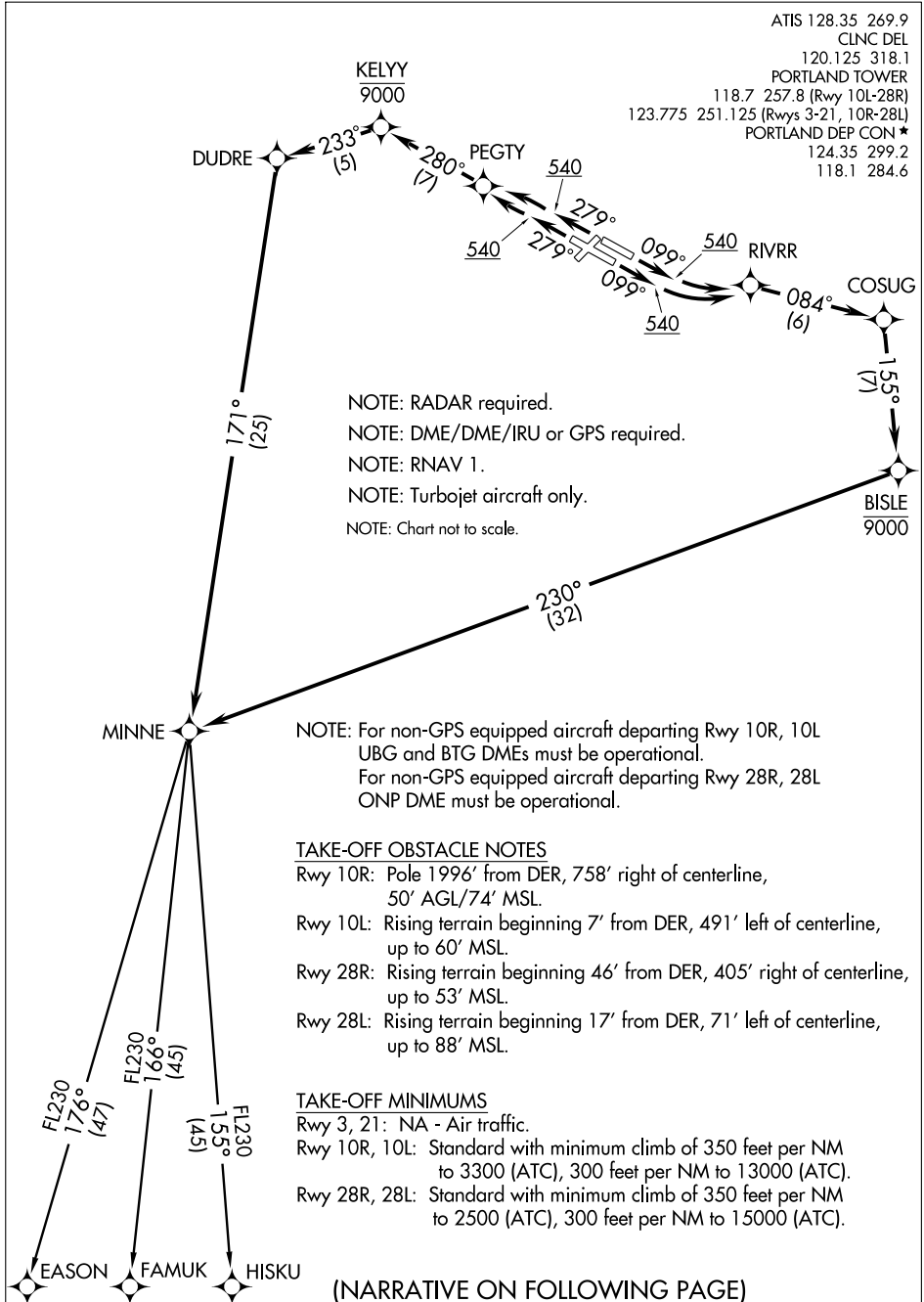
AL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



When visual approaches to Runways 28L/R are in progress, clearances to aircraft will be issued utilizing the following phraseology: "(IDENT) CLEARED FOR MILL VISUAL RUNWAY 28 LEFT/RIGHT APPROACH."





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct to RIVRR, then via 084° track to COSUG, then via 155° track to cross BISLE at or below 9000, then via 230° track to MINNE, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, then via 084° track to COSUG, then via 155° track to cross BISLE at or below 9000, then via 230° track to MINNE, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, then via 280° track to cross KELYY at or below 9000, then via 233° track to DUDRE, then via 171° track to MINNE, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, then via 280° track to cross KELYY at or below 9000, then via 233° track to DUDRE, then via 171° track to MINNE, thence....

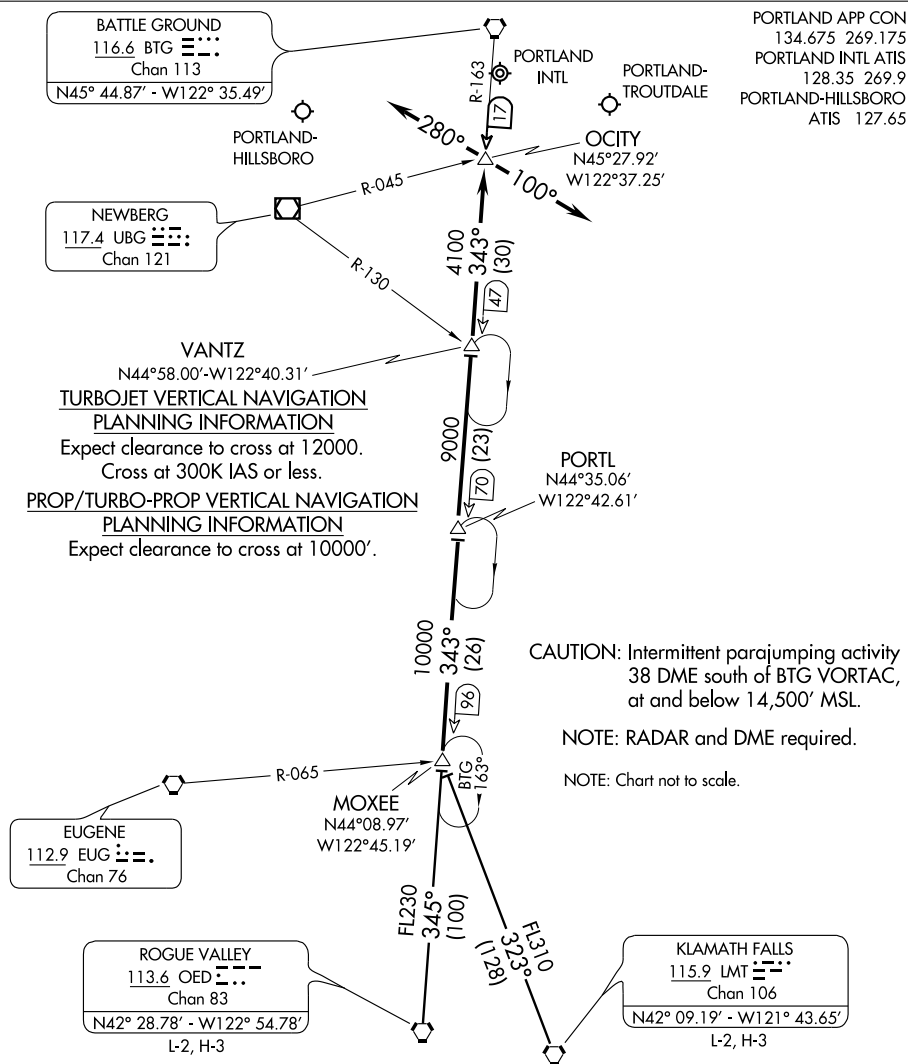
....via (Transition), maintain FL230, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: Expect filed altitude 3 minutes after departure.

EASON TRANSITION (MINNE1.EASON)

FAMUK TRANSITION (MINNE1.FAMUK)

HISKU TRANSITION (MINNE1.HISKU)



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

.... From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

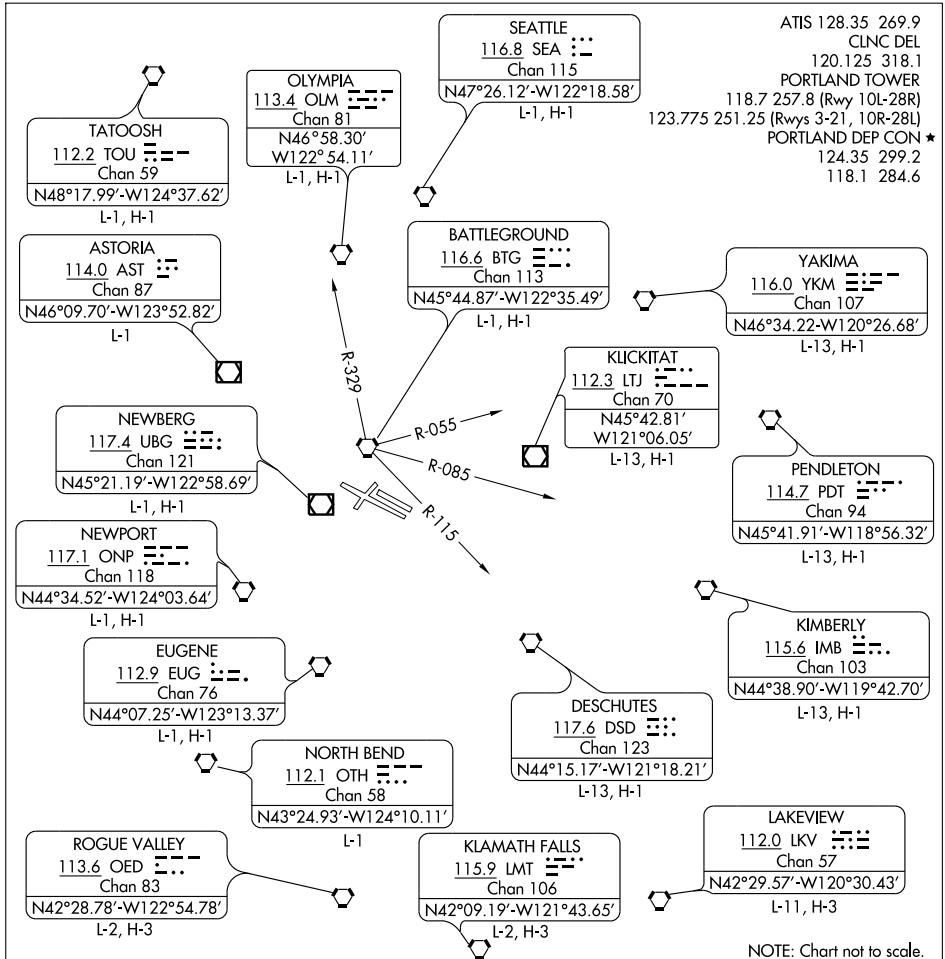
LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

PORTLAND SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb heading 025° to 600 thence....

TAKE-OFF RWY 10L: Climb heading 099° to 500 thence...

TAKE-OFF RWY 10R: Climb heading 099° to 500 thence....

TAKE-OFF RWY 28L: Climb heading 279° to 800 thence....

TAKE-OFF RWY 28R: Climb heading 279° to 800 thence....

TAKE-OFF RWY 21: Climb heading 205° to 500 thence....

....via assigned heading expect radar vectors to assigned route/fix. Maintain 3000, expect filed altitude five minutes after departures.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport, continue climb to assigned altitude and proceed direct BTG VORTAC. Continue climb via BTG R-329 within 10 NM to cross BTG VORTAC: BTG R-355 clockwise R-055 or R-085 clockwise R-115 at or above 5000 feet. Continue climb on course.

TAKE-OFF OBSTACLE NOTES:

Rwy 3: Signs, tower, trees, and vehicle on road beginning 468' from DER, 28' left of centerline, up to 100' AGL/449' MSL.

Poles, trees, and vehicle on road beginning 609' from DER, 7' left of centerline, up to 100' AGL/416' MSL.

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 21: Trees beginning 1319' from DER, 155' right of centerline, up to 100' AGL/318' MSL.

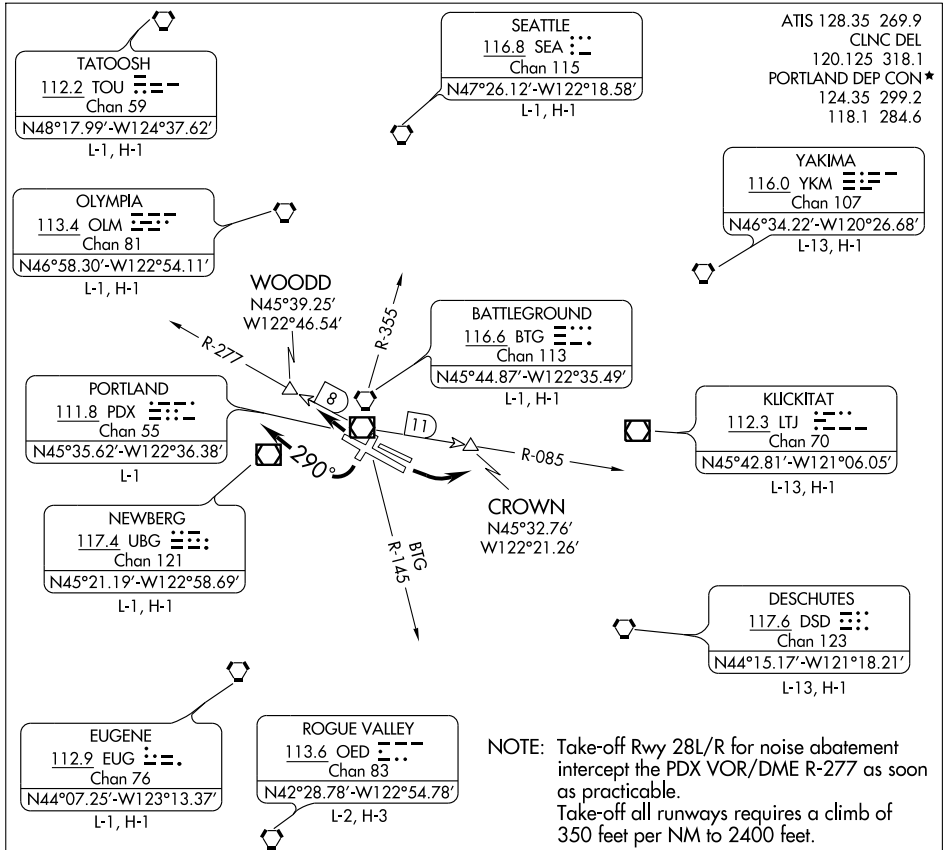
Poles and trees beginning 353' from DER, 36' left of centerline, up to 100' AGL/317' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

RIVER SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn left, intercept and proceed via the PDX R-085 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAY 21: Turn right fly heading 290° or as assigned, expect radar vectors on course. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the PDX R-277 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

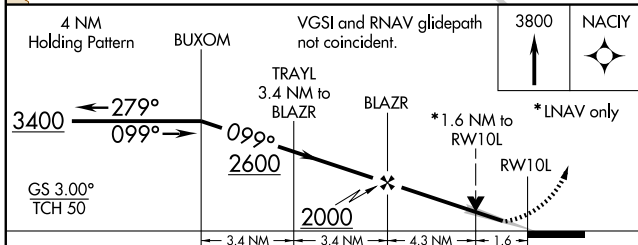
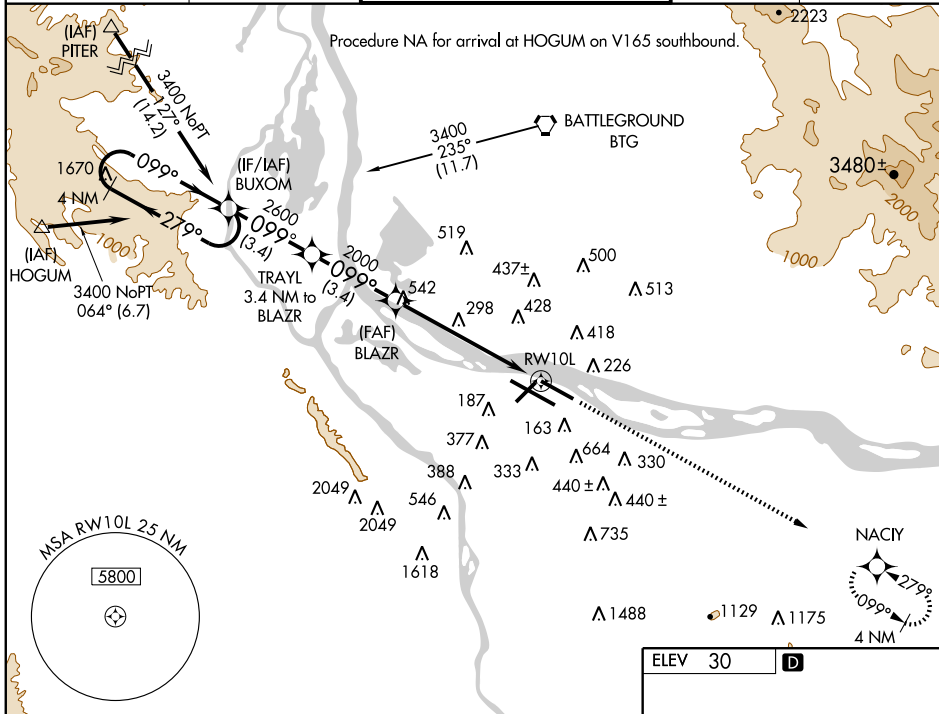
LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport or leaving 3,000', continue climb to assigned altitude and proceed direct to BTG VORTAC, thence via (assigned route). If proceeding via BTG VORTAC R-355 CW R-145, a 340 feet per NM climb is required to 13800 feet.

ALTERNATE LOST COMMUNICATIONS: When BTG VORTAC is out of service: If no contact with ATC leaving 3,000', continue climb to assigned altitude direct UBG VOR/DME.

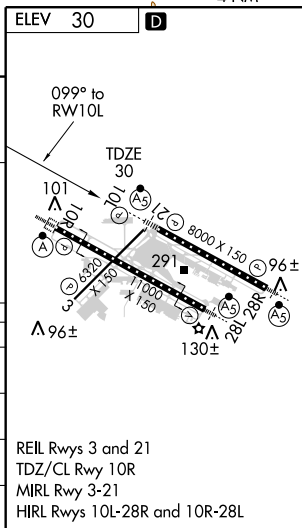
WAAS CH 81804 W10B	APP CRS 099°	Rwy Idg 8000 TDZE 30 Apt Elev 30
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RNAV (GPS) RWY 10L
PORTLAND INTL (PDX)

<div><div><div></div><div></div></div><div>DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F).</div></div>		<div><div><div></div><div></div></div><div>MAISLR</div></div>	MISSED APPROACH: Climb to 3800 direct NAC1Y WP and hold.			
ATIS 128.35 269.9		PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1



CATEGORY	A	B	C	D
LPV DA	330/24 300 (300-½)			
RNAV/ VNAV DA	800-2¼ 770 (800-2¼)			800-2½ 770 (800-2½)
RNAV MDA	580/24 550 (600-½)		580/50 550 (600-1)	580/60 550 (600-1¼)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)



WAAS CH 40004 W10A	APP CRS 099°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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RNAV (GPS) RWY 10R
PORTLAND INTL (PDX)

- T** DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4F).
A Inoperative table does not apply to LNAV/VNAV all Cats.
 For inoperative ALSF-2 increase LPV visibility to RVR 6000.

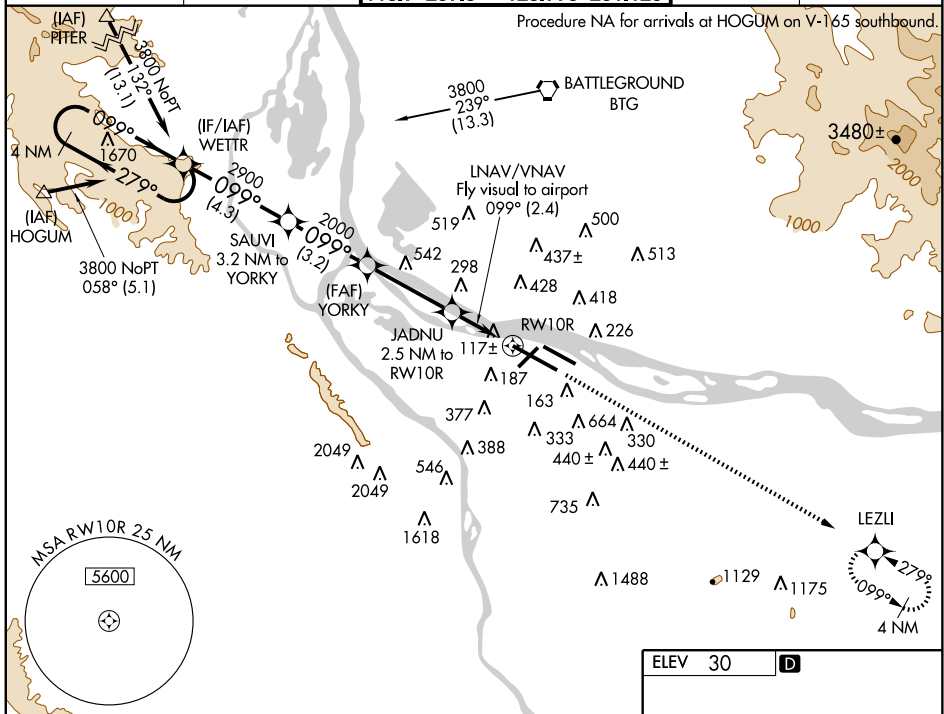
ALSF-2



MISSED APPROACH: Climb to 3500 direct LEZU and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwys 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Procedure NA for arrivals at HOGUM on V-165 southbound



NW-1. 22 OCT 2009 to 19 NOV 2009

4 NM Holding Pattern

WETTR

3800 ← 279°
099° →

GS 3.00°
TCH 53

SAUVI
3.2 NM to YORKY

YORKY

JADNU
2.5 NM to RW10R

3500

LEZLI

2900

2000

860

*1.5 NM to RW10R

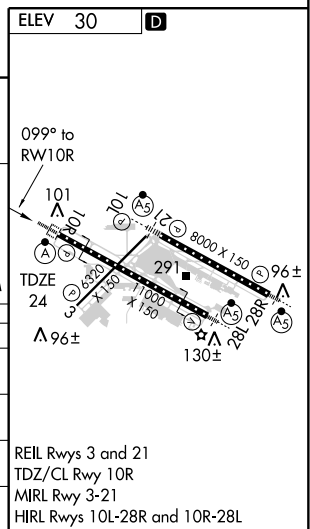
*RNAV only

RW10R

LNNAV/
RNAV
Fly Visual
099° 2.4 NM

4.3 NM 3.2 NM 3.4 NM 1 1.5

CATEGORY	A	B	C	D
LPV DA	390/40 366 (400-34)			
LNAV/VNAV DA	660-2 636 (700-2)			
LNAV MDA	540/24 516 (600-½)	540/50 516 (600-1)	540/60 516 (600-1¼)	
CIRCLING	720-5 690 (700-5)	740-5 710 (800-5)	1020-5 990 (1000-5)	



▼

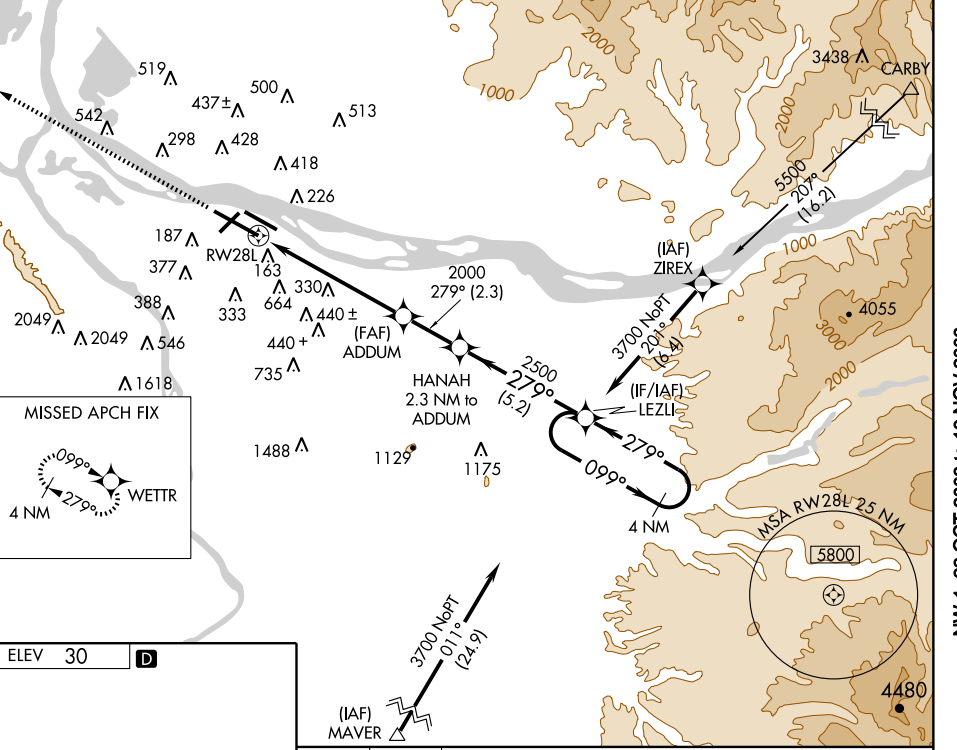
▲

DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 3800 direct WETTR and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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ELEV 30 **D**

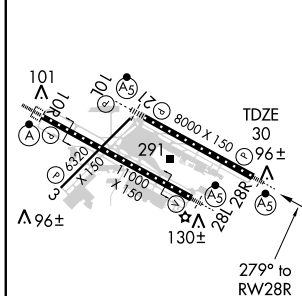
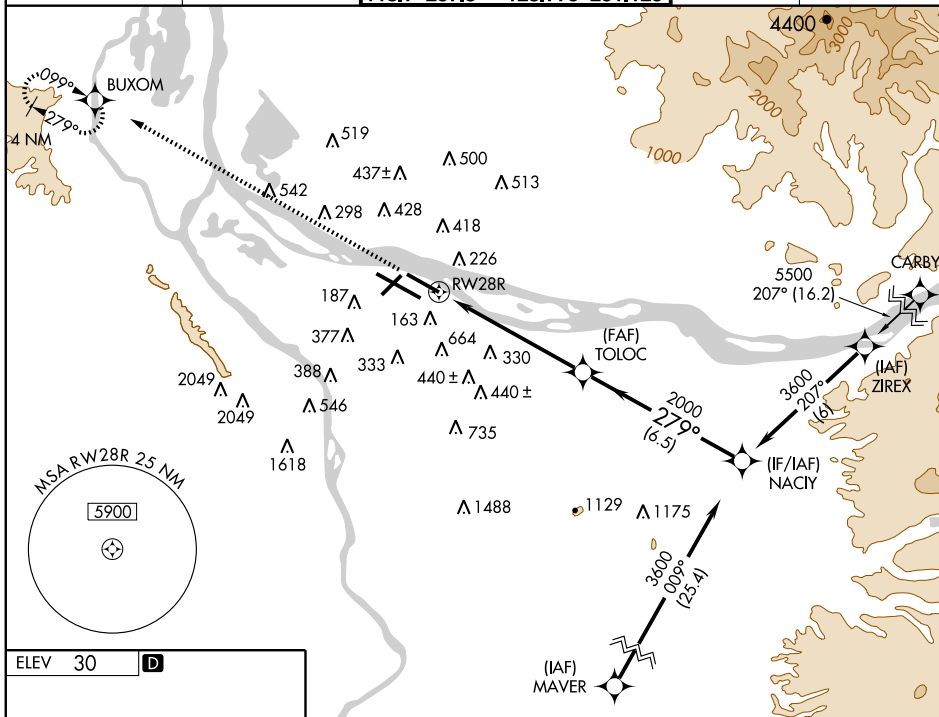
3800 WETTR		VGSi and RNAV glidepath not coincident.		4 NM Holding Pattern	
*LNAV only		ADDUM	HANAH 2.3 NM to ADDUM	LEZLI	
*1.8 NM to RW28L		279°		099°	3700
RW28L		2000		2500	GS 3.00° TCH 55
1.8		4.1 NM	2.3 NM	5.2 NM	
CATEGORY	A	B	C	D	
LPV DA	340/24 317 (400-1/2)				
LNAV MDA	660/24 637 (700-1/2)		660/60 637 (700-1 1/4)		660-1 1/2 637 (700-1 1/2)
CIRCLING	720-1 1/2 690 (700-1 1/2)		740-1 1/2 710 (800-1 1/2)		740-2 710 (800-2) 1020-3 990 (1000-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

WAAS CH 60905 W28A	APP CRS 279°	Rwy Idg TDZE Apt Elev	8000 30 30
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RNAV (GPS) RWY 28R
PORTLAND INTL (PDX)

	DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F). For inoperative MALS increase LNAV Cat A and B visibility to RVR 5000. For inoperative MALS increase LPV visibility to RVR 5000 all Cats.				MISSED APPROACH: Climb to 3400 direct BUXOM and hold.
	ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		



REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 3400 </div> <div style="text-align: center;"> BUXOM </div> </div>		<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;"> TOLOC </div> <div style="text-align: right;"> Procedure Turn NA <u>3600</u> GS 3.00° TCH 65 </div> </div>			
* LNAV only					
CATEGORY	A	B	C	D	
LPV DA	320/40 290 (300-¾)				
LNAV/VNAV DA	540/60 510 (600-1¼)				
LNAV MDA	600/40 570 (600-¾)	600/50 570 (600-1)		600/60 570 (600-1¼)	
CIRCLING	720-1¼ 690 (700-1¾)	740-1¼ 710 (800-1¾)	740-2 710 (800-2)	1020-3 990 (1000-3)	

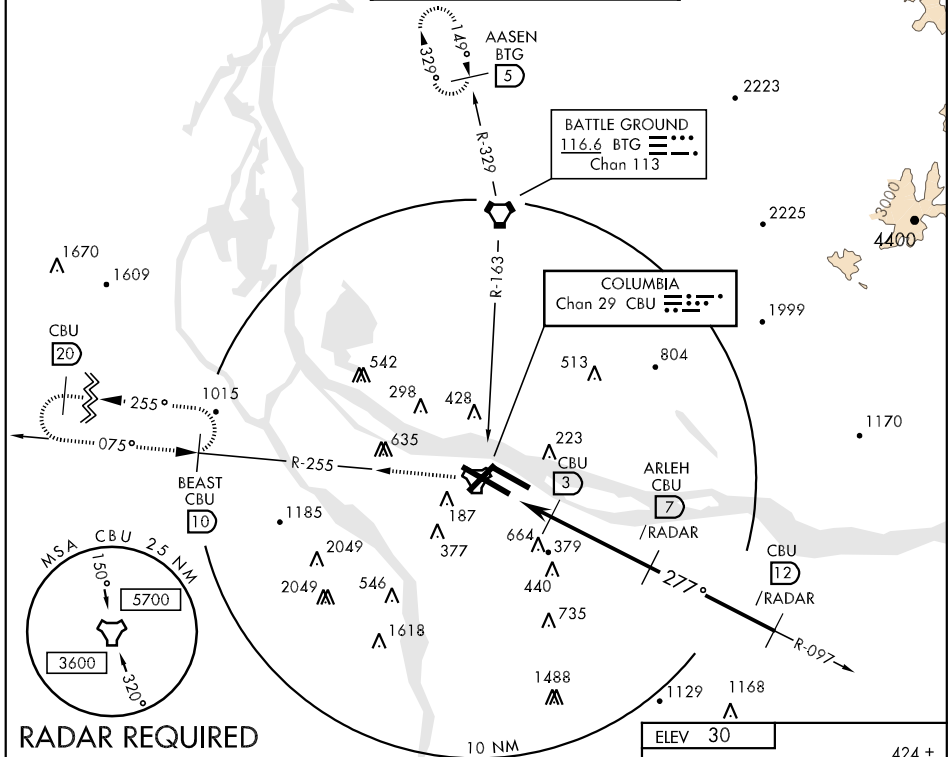
TACAN CBU Chan 29	APCH CRS 277°	Rwy Idg 11,000 TDZE 23 Arpt Elev 30
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AL-330 [USAF]

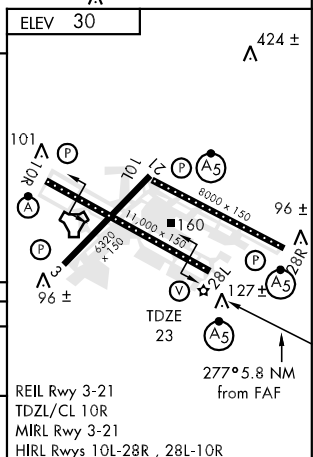
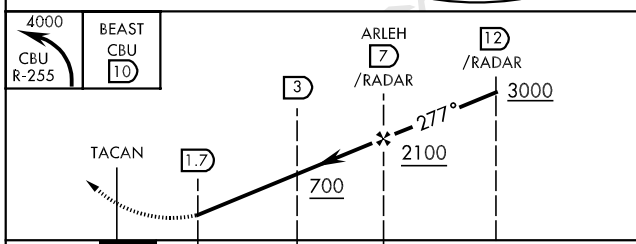
PORTLAND INTL (KPDY)

MISSED APPROACH: Climbing left turn to 4000 via CBU R-255 to BEAST INT/CBU 10 DME and hold, or when directed by ATC climb to 4000 via BTG R-163 to BTG VORTAC then via BTG R-329 to AASEN INT and hold.

ARR 128.35	ATIS 120.625	DEP 269.9	PORTLAND APP CON 100°279° 118.1 284.6 280°099° 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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RADAR REQUIRED



CATEGORY	A	B	C	D	E
S-28L	600/50 577 (600-1)		600-1½ 577 (600-½)	600-1¾ 577 (600-¾)	600-2 577 (600-2)
CIRCLING	720-1 690 (700-1)		740-2 710 (800-2)	980-3 950 (1000-3)	1060-3 1030 (1100-3)

REIL Rwy 3-21
TDZL/CL 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R, 28L-10R

NW-1, 22 OCT 2009 to 19 NOV 2009

VORTAC BTG <u>116.6</u> Chan 113	APP CRS 161°	Rwy Idg TDZE Apt Elev	N/A N/A 30
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VOR-A
PORTLAND INTL (PDX)



MISSED APPROACH: Climbing left turn to 4000 via BTG R-160 to BTG VORTAC.

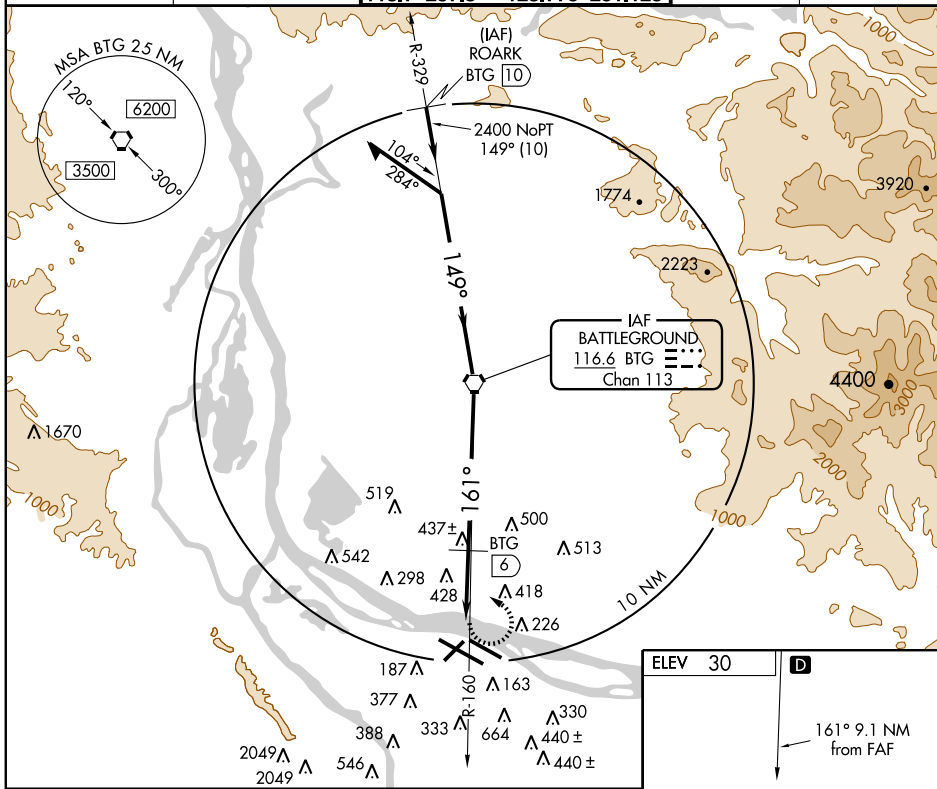
ATIS
128.35 269.9


PORTLAND APP CON ★
124.35 299.2

PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118.7	257.8	123.775	251.125

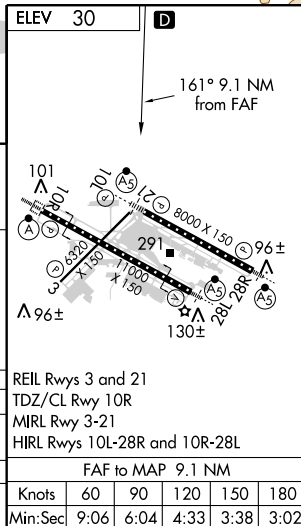
GND CON
121.9 348.6

CLNC DEL
120.125 318.1



4000 BTG R-160	BTG  <u>116.6</u>
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BTG
9.1



CATEGORY	A	B	C	D
CIRCLING	880-1 850 (900-1)	880-1¼ 850 (900-1¼)	880-2½ 850 (900-2½)	1020-3 990 (1000-3)
DME MINIMA				
CIRCLING	740-1 710 (800-1)		740-2 710 (800-2)	1020-3 990 (1000-3)

VOR/DME PDX 111.8 Chan 55	APP CRS 215°	Rwy Idg 6320 TDZE 27 Apt Elev 30
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VOR/DME RWY 21
PORTLAND INTL (PDX)

T	Visibility reduction by helicopters NA.
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MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

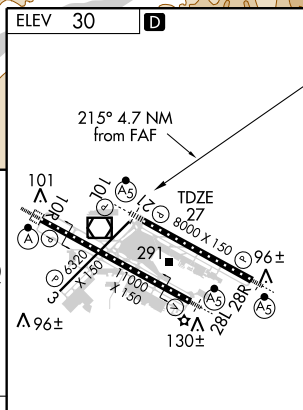
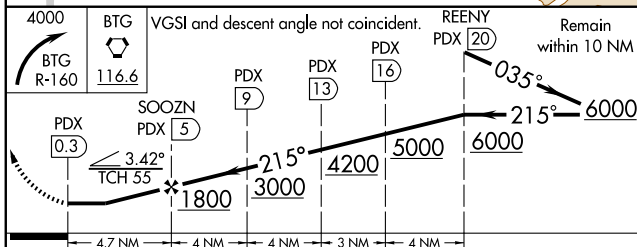
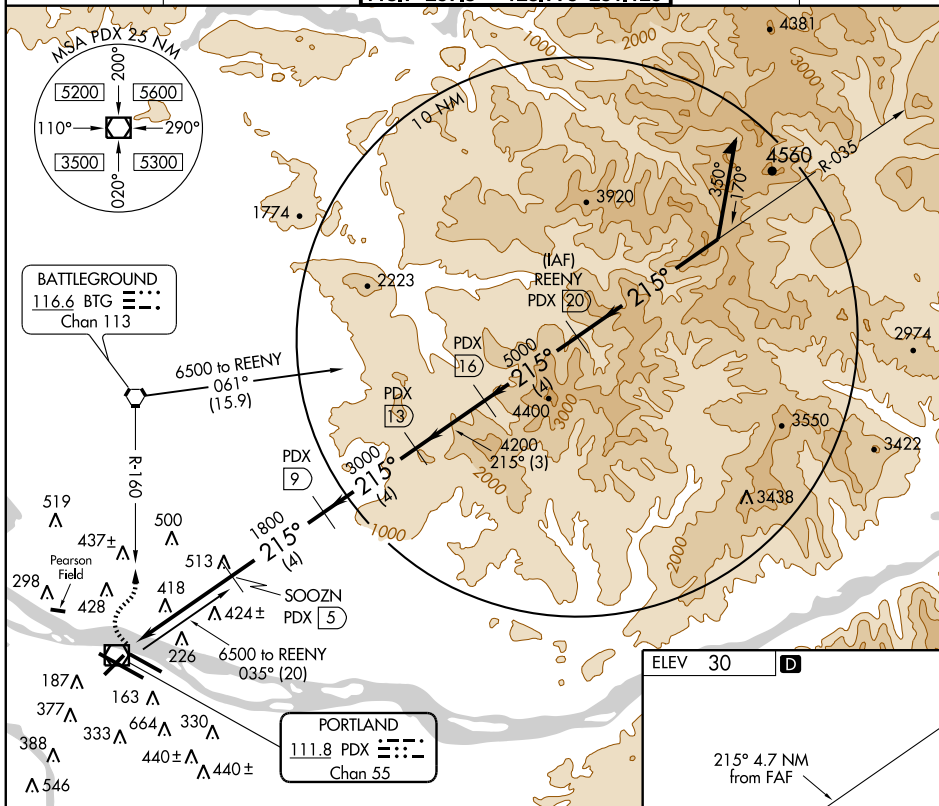
ATIS
128.35 269.9

PORTLAND APP CON ★
124.35 299.2

PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118.7	257.8	123.775	251.125

GND CON
121.9 348.6

CLNC DEL
120.125 318.1





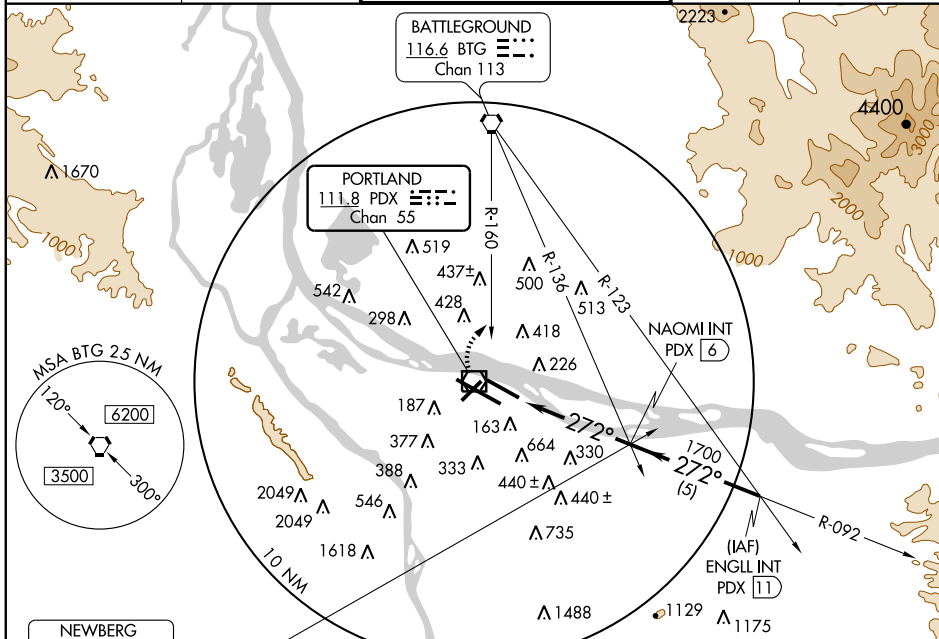
CATEGORY	A	B	C	D
S-21	720-1 693 (700-1)		720-2 693 (700-2)	720-2½ 693 (700-2½)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

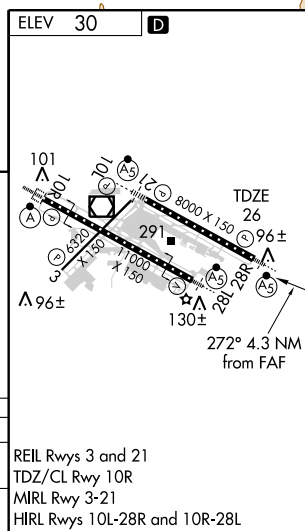
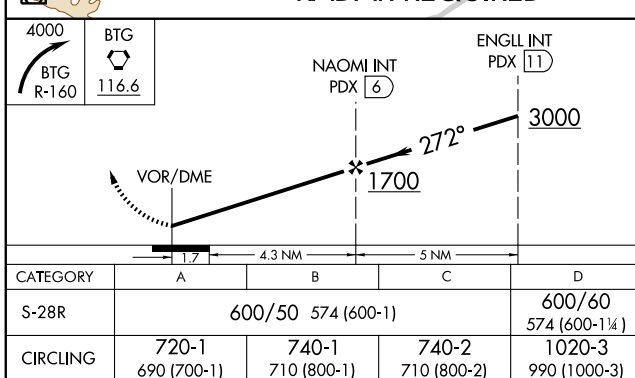
VOR/DME PDX 111.8 Chan 55	APP CRS 272°	Rwy Idg 8000 TDZE 26 Apt Elev 30
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VOR RWY 28R
PORTLAND INTL (PDX)

 Inoperative table applies only to Cat. C and D.		 MALSR		MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC.	
ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1

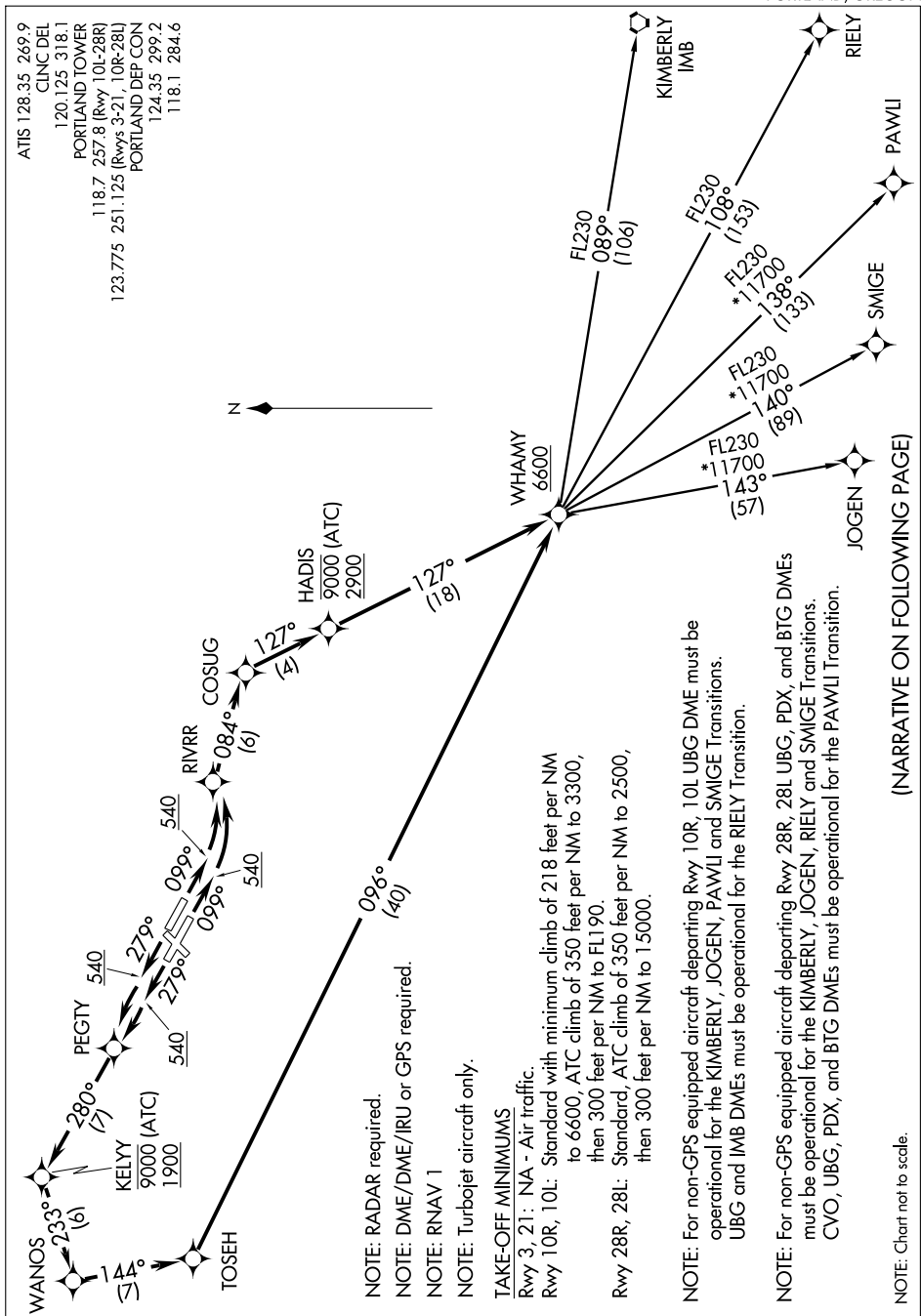


RADAR REQUIRED



WHAMY ONE DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

JOGEN TRANSITION (WHAMY1.JOGEN)

KIMBERLY TRANSITION (WHAMY1.IMB)

PAWLI TRANSITION (WHAMY1.PAWLI)

RIELY TRANSITION (WHAMY1.RIELY)

SMIGE TRANSITION (WHAMY1.SMIGE)

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

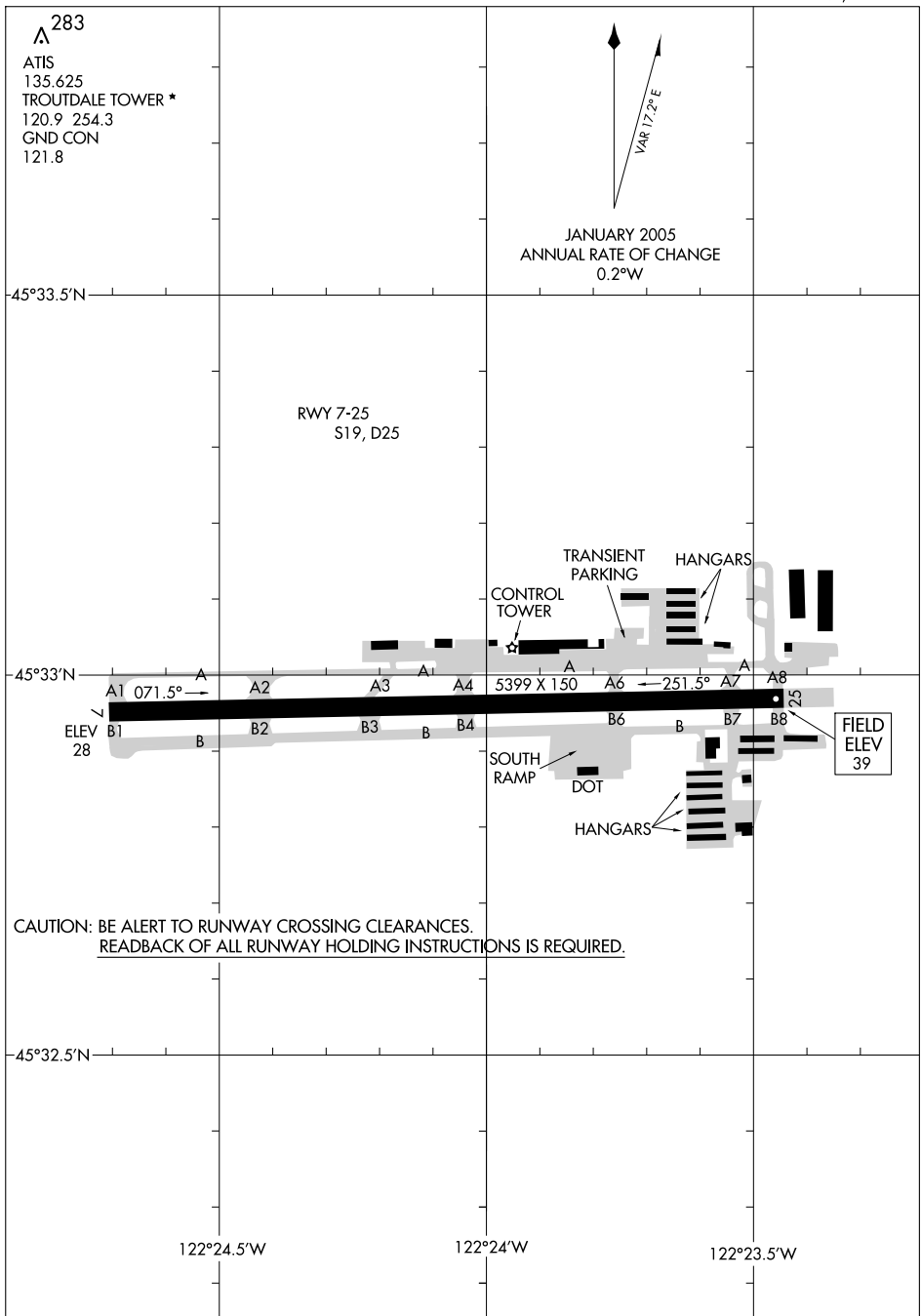
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

AIRPORT DIAGRAM

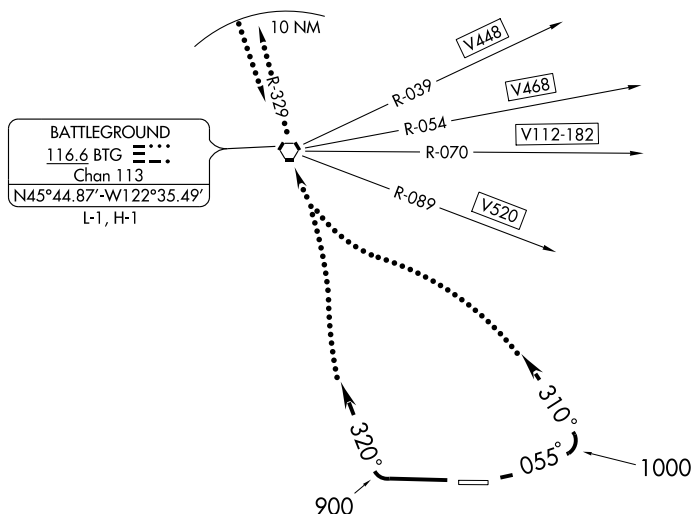
AL-649 (FAA)

PORTLAND-TROUTDALE (TTD)
PORTLAND, OREGON



NW-1, 22 OCT 2009 to 19 NOV 2009

CTAF 120.9



NOTE: Rwy 7 requires a minimum climb gradient of 420' per NM to 4000'.

Rwy 25 requires a minimum climb of 310' per NM to 2000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb via heading 055° to 1000', then turn left to 310° or as assigned.

TAKE-OFF RUNWAY 25: Climb runway heading to 900', then turn right to 320° or as assigned.

LOST COMMUNICATIONS: Proceed direct to BTG VORTAC. Continue climb on the BTG R-329 within 10 NM to cross BTG VORTAC at or above: NE-bound V448, 9400'; NE-bound V468, 4500'; E-bound V112, V182, V520, 4700'; for non airways BTG R-355 CW BTG R-120, 8800'; all others, 2500'.

ALTERNATE LOST COMMUNICATIONS PROCEDURE: When BTG VORTAC is out of service: if no contact with ATC leaving 3000', continue climb to assigned altitude and proceed direct to UBG VOR/DME, thence via assigned route.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

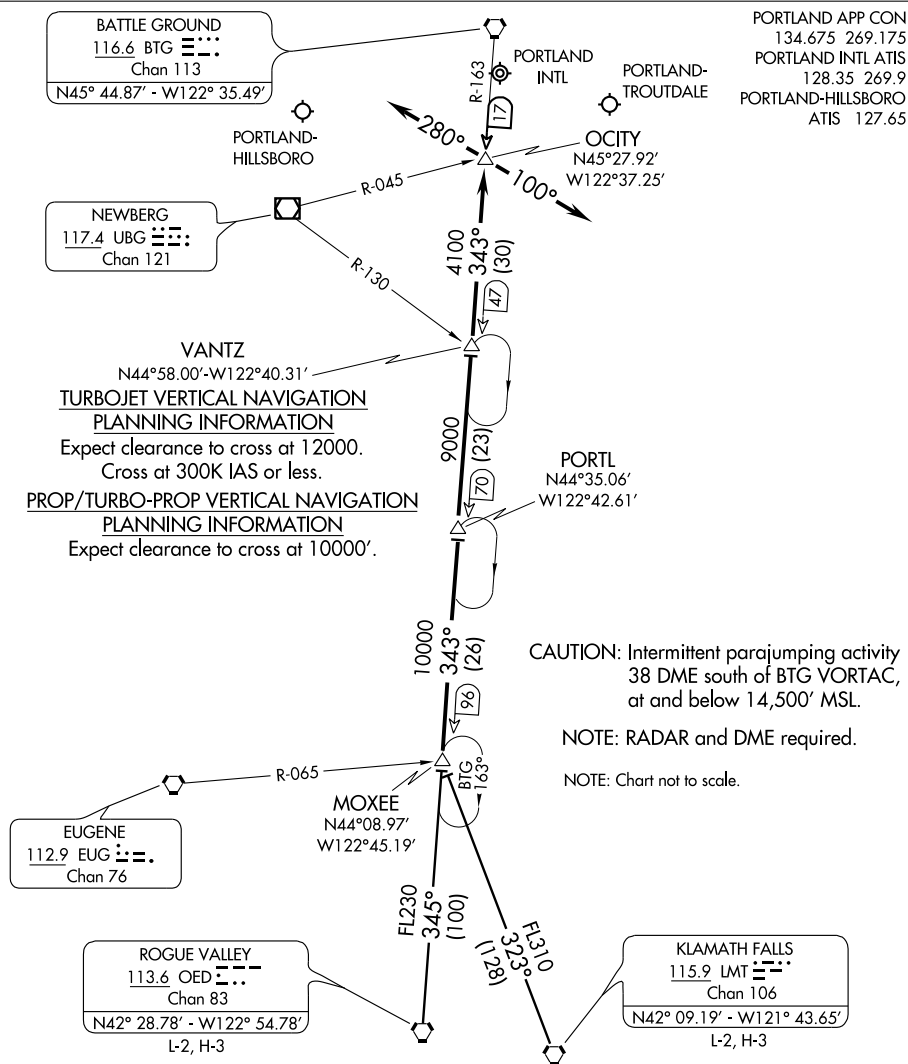
NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence

. . . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:


Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

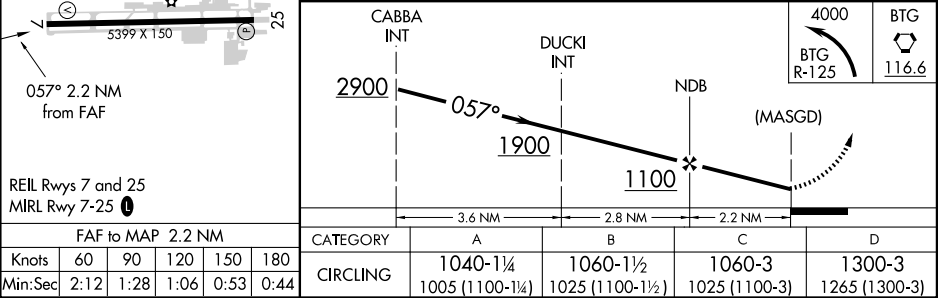
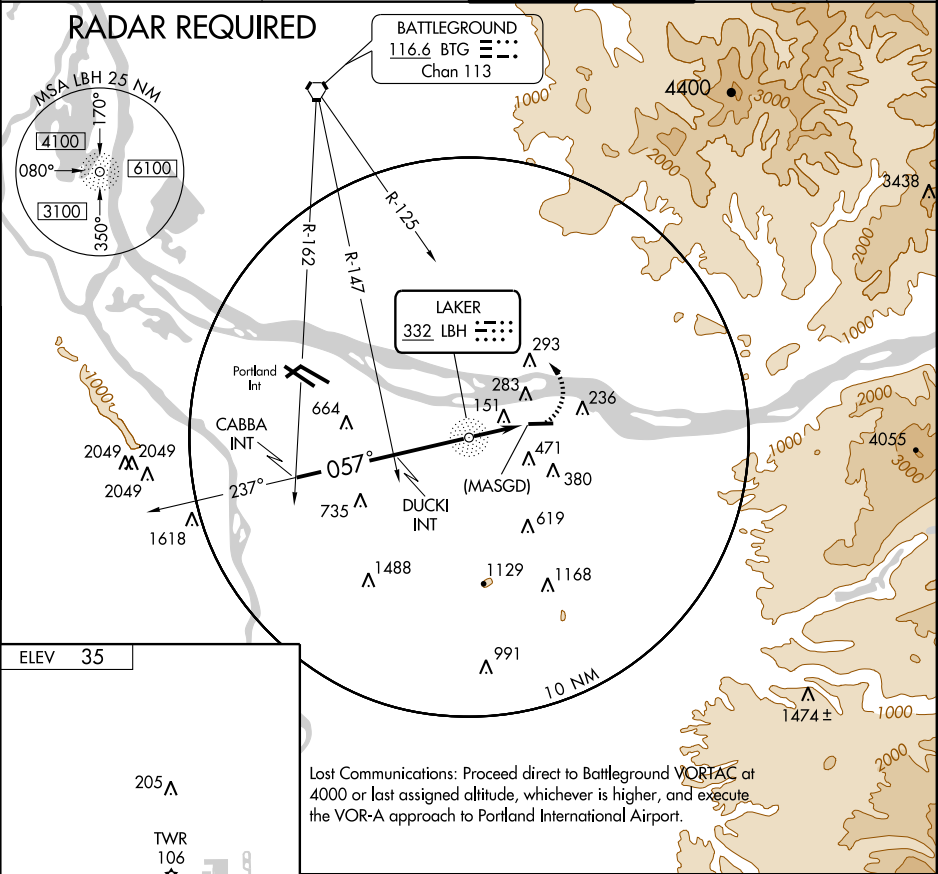
LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

NDB LBH	APP CRS	Rwy Idg TDZE	N/A
332	057°	Apt Elev	35

NDB or GPS-A
PORTLAND-TROUTDALE (TTD)

	If local altimeter setting not received procedure not authorized.	MISSED APPROACH: Climbing left turn to 4000 via BTG R-125 to BTG VORTAC.
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ATIS 135.625	PORTLAND APP CON 124.35 299.2	TROUTDALE TOWER ★ 120.9 (CTAF) 254.3	GND CON 121.8	UNICOM 122.95
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DESCHUTES ONE DEPARTURE (RNAV)

SEATTLE CENTER
128.15 257.75
UNICOM 122.8 (CTAF)

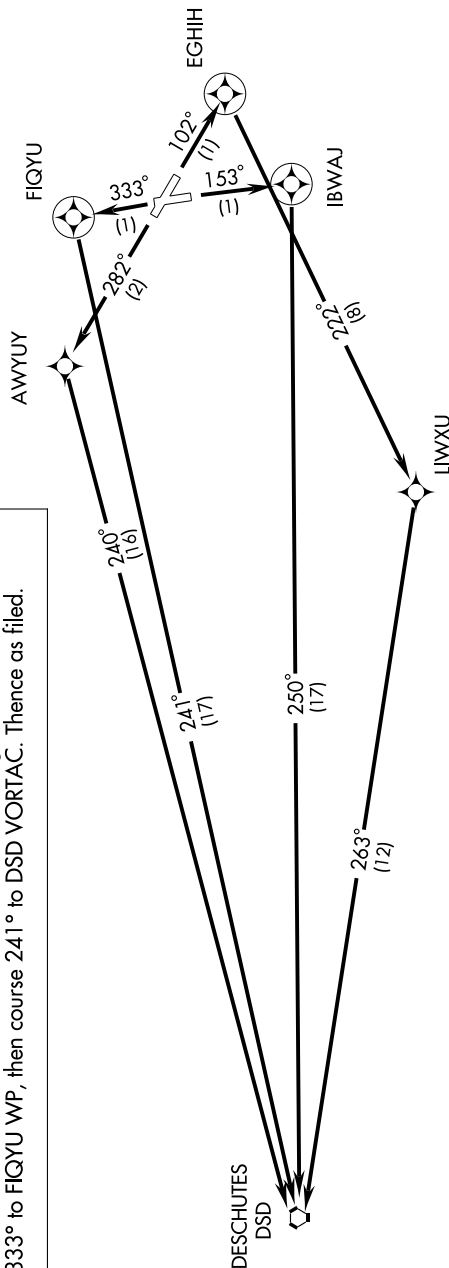
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10: Climb to 9000 (or ATC assigned altitude) via course 102° to EGHIIH WP, then course 222° to LIWXU WP, then course 263° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 15: Climb to 9000 (or ATC assigned altitude) via course 153° to IBWAJ WP, then course 250° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 28: Climb to 9000 (or ATC assigned altitude) via course 282° to AWYUY WP, then course 240° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 33: Climb to 9000 (or ATC assigned altitude) via course 333° to FIQYU WP, then course 241° to DSD VORTAC. Thence as filed.



NOTE: Standard with minimum climb gradient of 400' per NM to 9000', except V25 North requires minimum climb gradient of 400' per NM to 7000'.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.

NDB RWY 10
PRINEVILLE (S39)

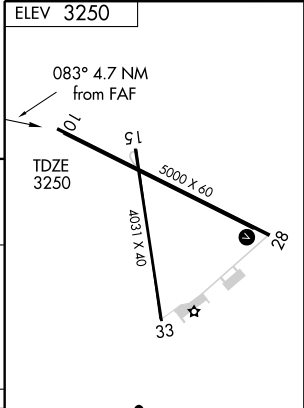
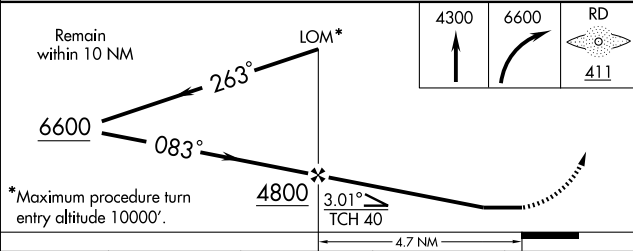
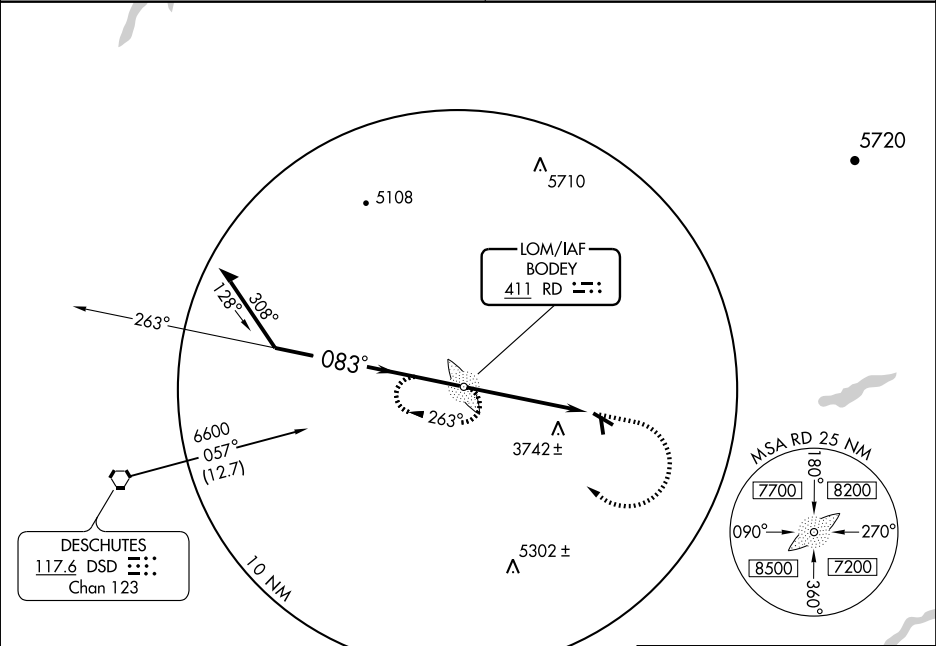
LOM	RD	APP CRS	Rwy Idg	5000
411		083°	TDZE	3250
			Apt Elev	3250



▼ Use Roberts Field altimeter setting.

▲ NA

MISSED APPROACH: Climb to 4300 then climbing right turn to 6600 direct RD LOM and hold.

SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	MIRL Rwy 10-28  LIRL Rwy 15-33 					
S-10	4100-1	4100-1¼	4100-2½	4100-2¾	FAF to MAP 4.7 NM					
	850 (900-1)	850 (900-1¼)	850 (900-2½)	850 (900-2¾)						
CIRCLING	4100-1	4100-1¼	4100-2½	4100-2¾	Knots	60	90	120	150	180
	850 (900-1)	850 (900-1¼)	850 (900-2½)	850 (900-2¾)	Min:Sec	4:42	3:08	2:21	1:53	1:34

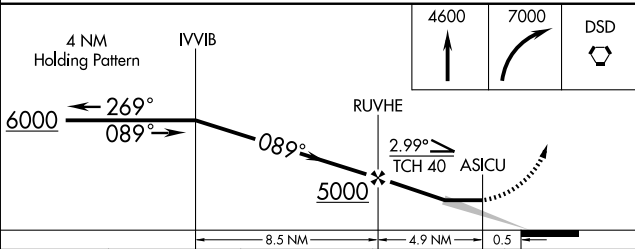
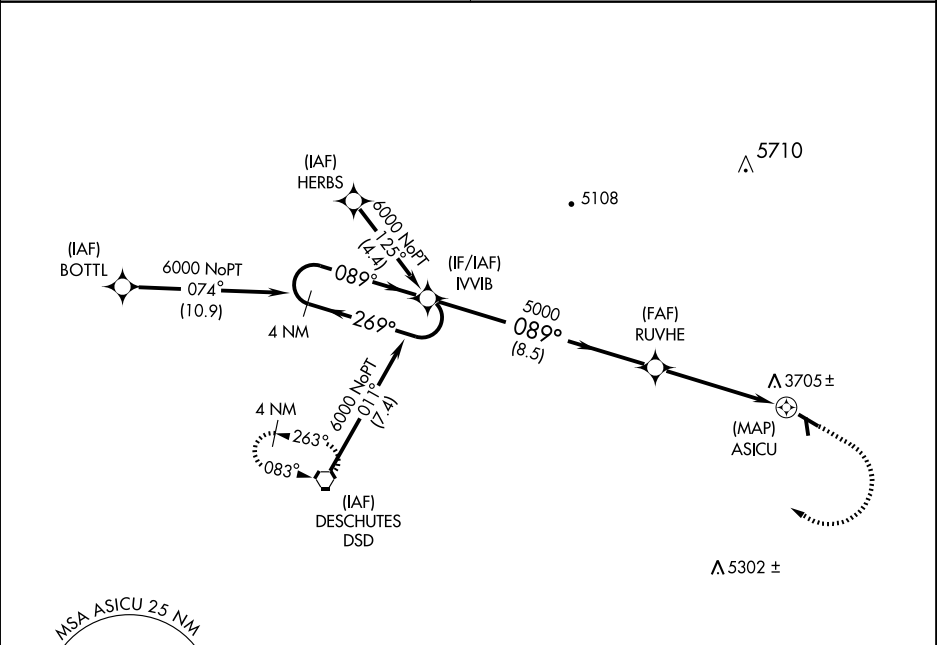
APP CRS 089°	Rwy Idg TDZE Apt Elev 5000 3250 3250
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RNAV (GPS) RWY 10

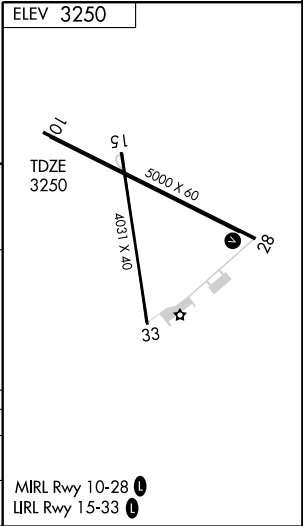
PRINEVILLE (S39)

▼ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.
▲ NA Use Roberts Field altimeter setting.	

SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
RNAV MDA	4020-1 770 (800-1)	4020-1¼ 770 (800-1¼)	4020-2¼ 770 (800-2¼)	4020-2½ 770 (800-2½)
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)



MIRL Rwy 10-28 **0**
LRL Rwy 15-33 **0**

▼

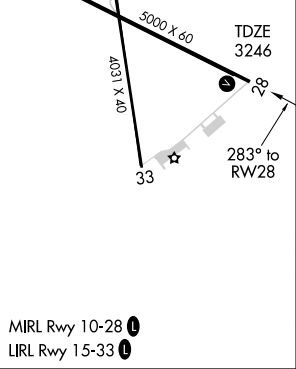
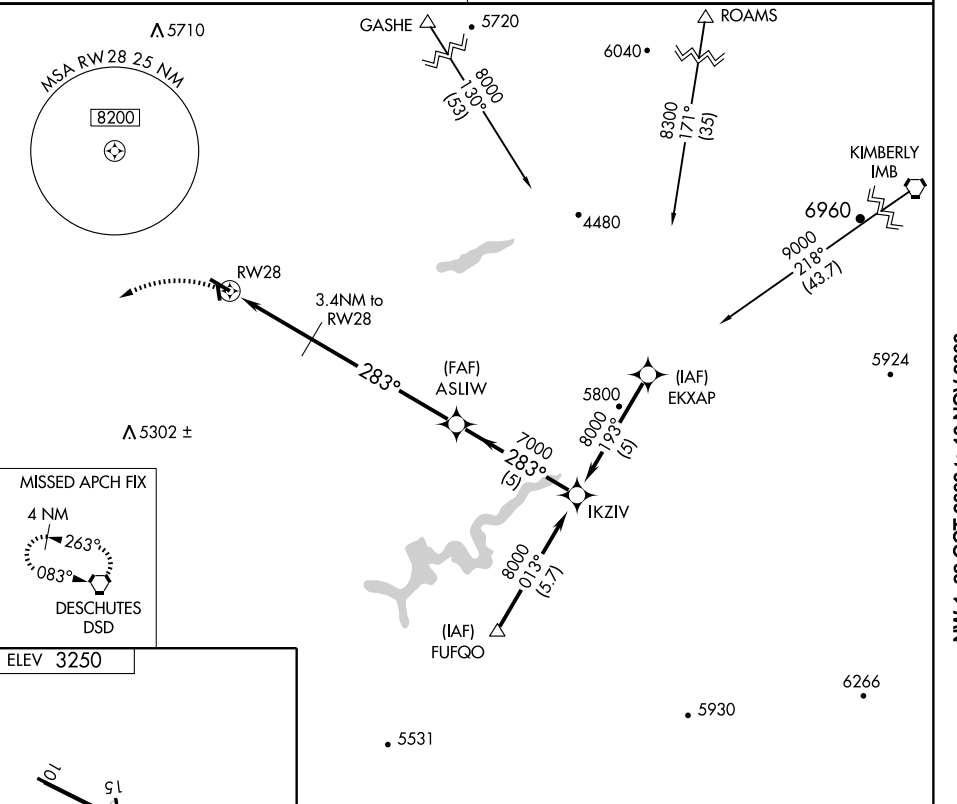
NA

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
Use Roberts Field altimeter setting.

MISSED APPROACH: Climbing left turn to 7000 direct DSD
VORTAC and hold.

SEATTLE CENTER
128.15 257.75

UNICOM
122.8 (CTAF)



7000		DSD		VGSI and descent angles not coincident.			
RW28		3.4 NM to RW28		ASLIW		IKZIV	
4620		7000		283°		8000	
3.4 NM		6 NM		5 NM		Procedure Turn NA	
CATEGORY	A		B		C		D
LNAV MDA	3840-1		594 (600-1)		3840-1½ 594 (600-1½)		NA
CIRCLING	4060-1 810 (900-1)		4100-1¼ 850 (900-1¼)		4100-2½ 850 (900-2½)		4100-2¾ 850 (900-2¾)

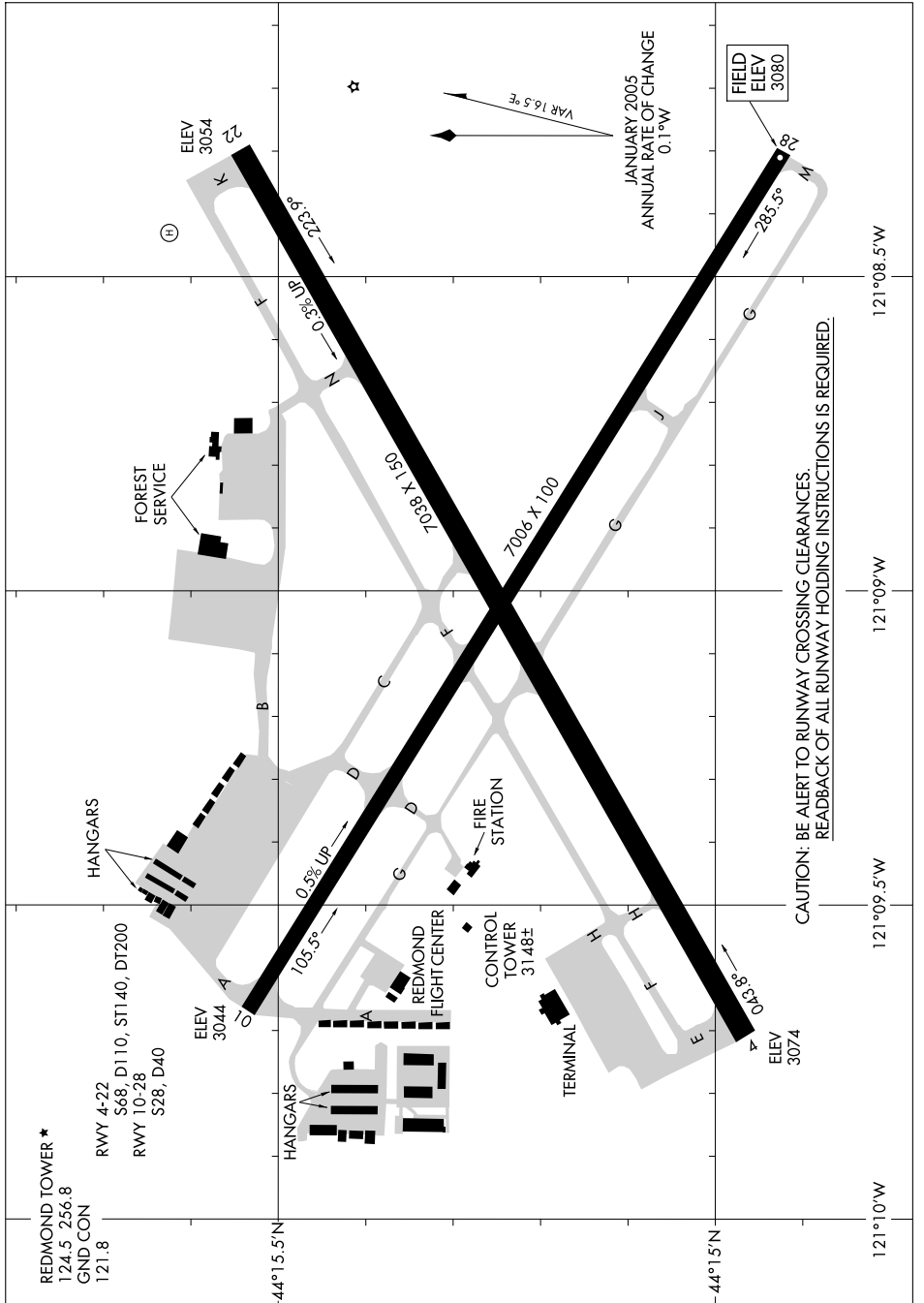
MIRL Rwy 10-28

LIRL Rwy 15-33

AIRPORT DIAGRAM

AL-345 (FAA)

REDMOND/ ROBERTS FIELD (RDM)
REDMOND, OREGON



LOC I-RDM	APP CRS	Rwy Idg	7038
109.1	222°	TDZE	3065
		Apt Elev	3080

ILS or LOC RWY 22
REDMOND/ROBERTS FIELD (RDM)

⚠ For inoperative MALS, increase S-ILS 22 Cat. E visibility to ¾.

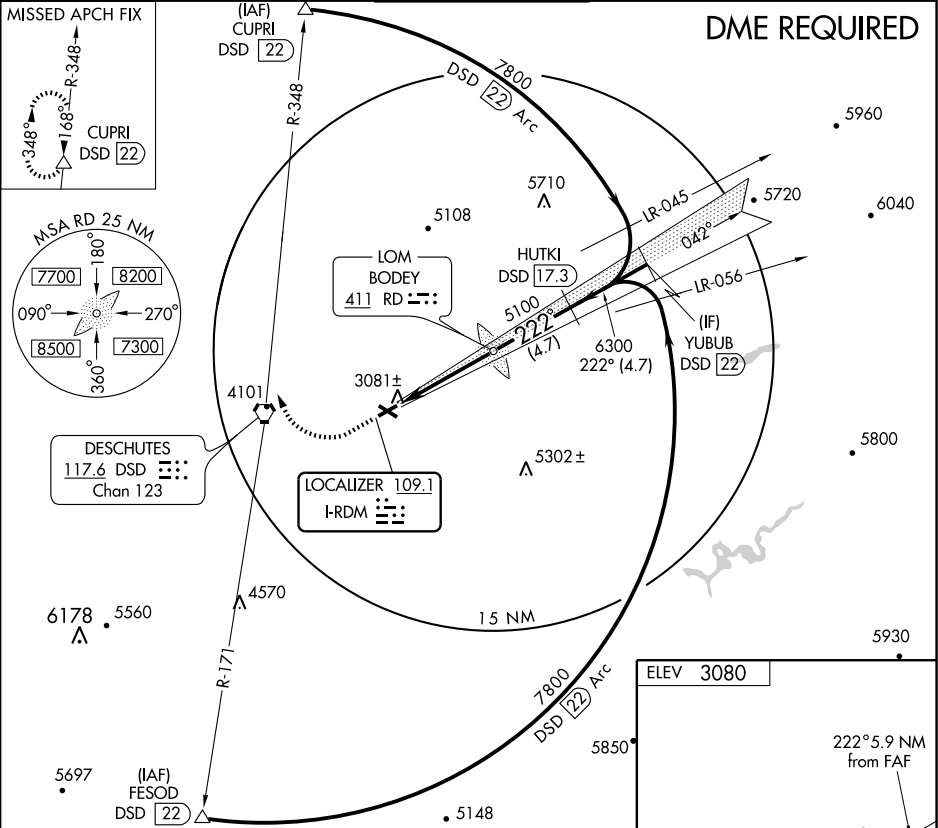
⚠ For inoperative MALS, increase S-LOC 22 Cat. D and E visibility to 1. Autopilot coupled approach NA below 4370.

MALS

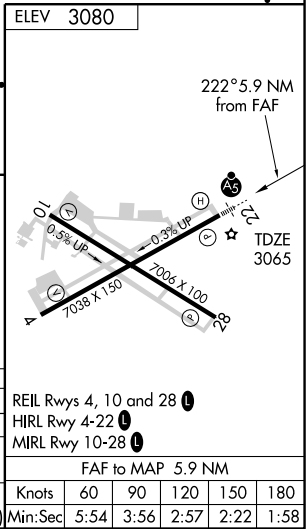
AS

MISSED APPROACH: Climb to 3500 then climbing right turn to 7000 via heading 315° and DSD VORTAC R-348 to CUPRI/DSD 22 DME and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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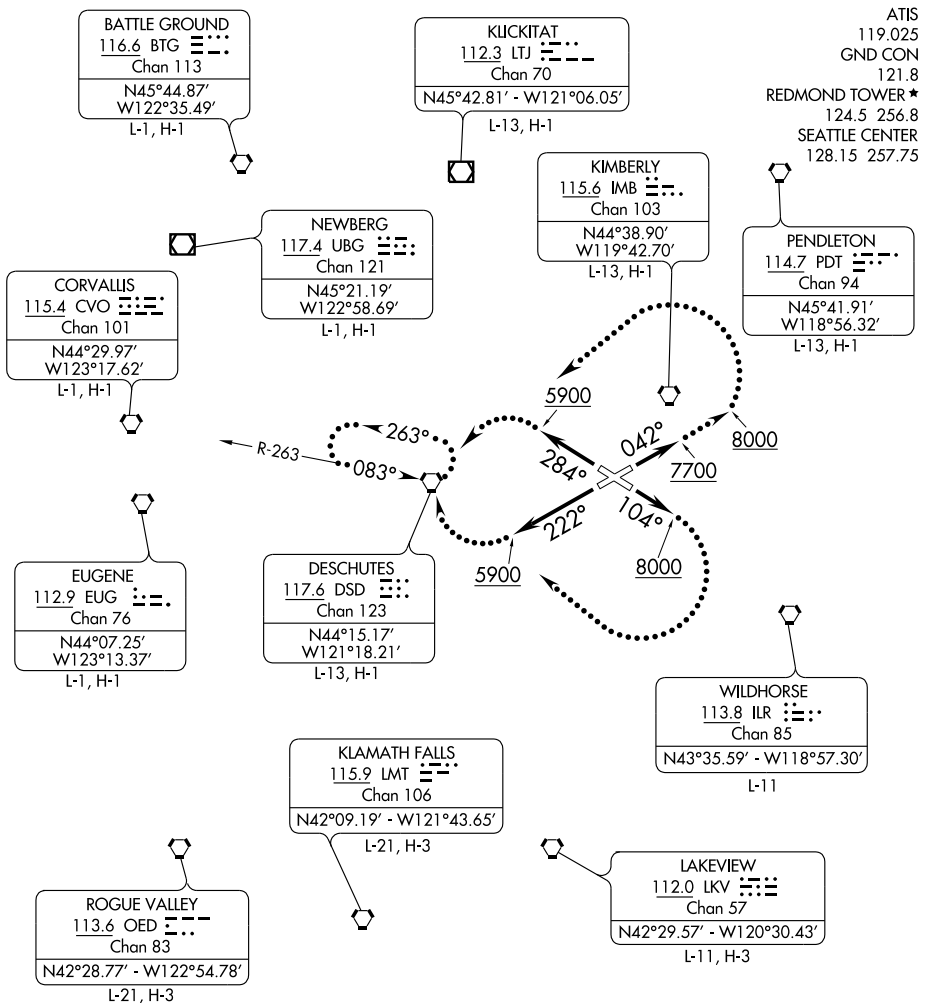
3500	7000	DSD	CUPRI	VGSI and ILS glidepath not coincident.	Procedure
↑	↘	R-348	△		Turn NA
		117.6		LOM	
				HUTKI DSD (17.3)	
				YUBUB DSD (22)	
				5017	
				5100	
				6300	
				7800	
				GS 3.00°	
				TCH 47	
				5.9 NM	
				4.7 NM	
				4.7 NM	
CATEGORY	A	B	C	D	E
S-ILS 22		3265-½	200 (200-½)		
S-LOC 22		3340-½	275 (300-½)	3340-¾	275 (300-¾)
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3780-2¼ 700 (700-2¼)	3780-2½ 700 (700-2½)



NW-1. 22 OCT 2009 to 19 NOV 2009

REDMOND ONE DEPARTURE

REDMOND, OREGON

TAKE-OFF OBSTACLE

Rwy 28: Numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL.
Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum obstacle climb of 371' per NM to 13000, ATC climb of 465' per NM to 7700.
Rwy 10: Standard with minimum climb of 406' per NM to 13000.
Rwy 22: Standard with minimum obstacle climb of 356' per NM to 13000, ATC climb of 406' per NM to 5900.
Rwy 28: Standard with minimum climb of 358' per NM to 13000.

NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON THE FOLLOWING PAGE)

REDMOND ONE DEPARTURE

REDMOND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb heading 042° or ATC assigned heading to 7700 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 10: Climb heading 104° or ATC assigned heading to 8000 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 22: Climb heading 222° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 28: Climb heading 284° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

. . . . Maintain 14000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Center after reaching 6000, continue climb to assigned altitude and:

TAKE-OFF RUNWAY 4: Continue climb to 8000, then climbing left turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 10: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 22: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 28: Climbing left turn direct DSD VORTAC. . . .

. . . . Climb-in-hold at DSD VORTAC (hold W, LT, 083° inbound) to cross DSD VORTAC at or above the MEA before proceeding on course.

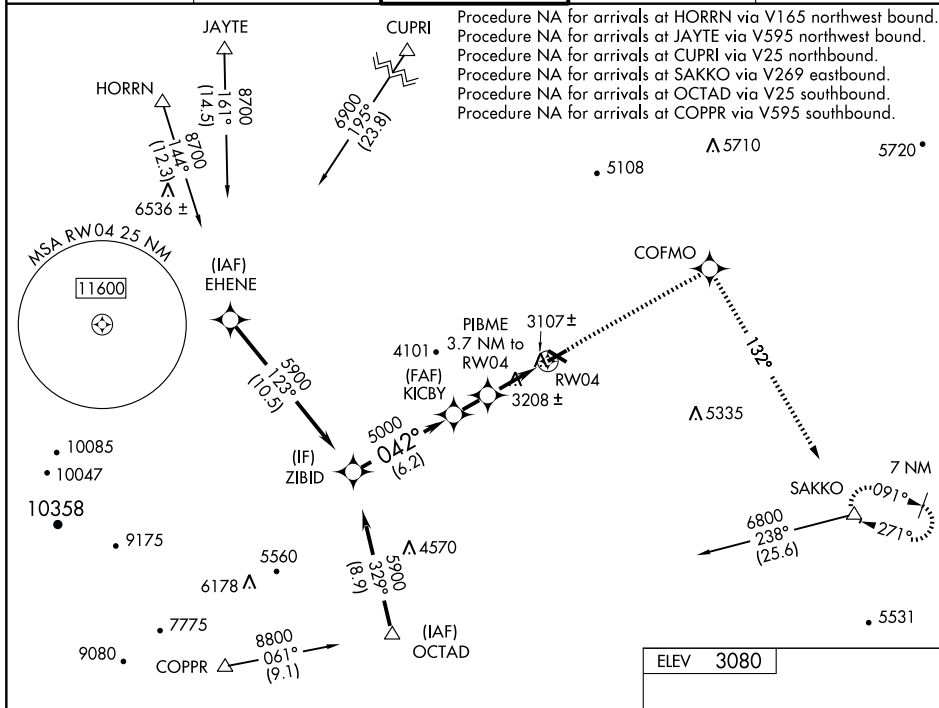
WAAS CH 70514 W04A	APP CRS 042°	Rwy Idg 7038 TDZE 3075 Apt Elev 3080
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RNAV (GPS) RWY 4
REDMOND/ROBERTS FIELD (RDM)

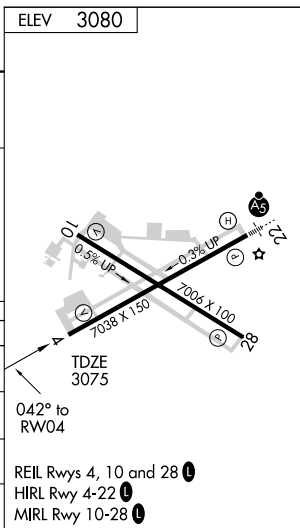
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP -0.3 NA. When local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9500 direct COFMO and via track 132° to SAKKO and hold, continue climb-in-hold to 9500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER* 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3325- $\frac{3}{4}$ 250 (300- $\frac{3}{4}$)			
LNAV/VNAV DA	3367-1 292 (300-1)			
LNAV MDA	3520-1	445 (500-1)	3520-1 $\frac{1}{4}$ 445 (500-1 $\frac{1}{4}$)	3520-1 $\frac{1}{2}$ 445 (500-1 $\frac{1}{2}$)
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1 $\frac{1}{2}$ 460 (500-1 $\frac{1}{2}$)	3640-2 560 (600-1)



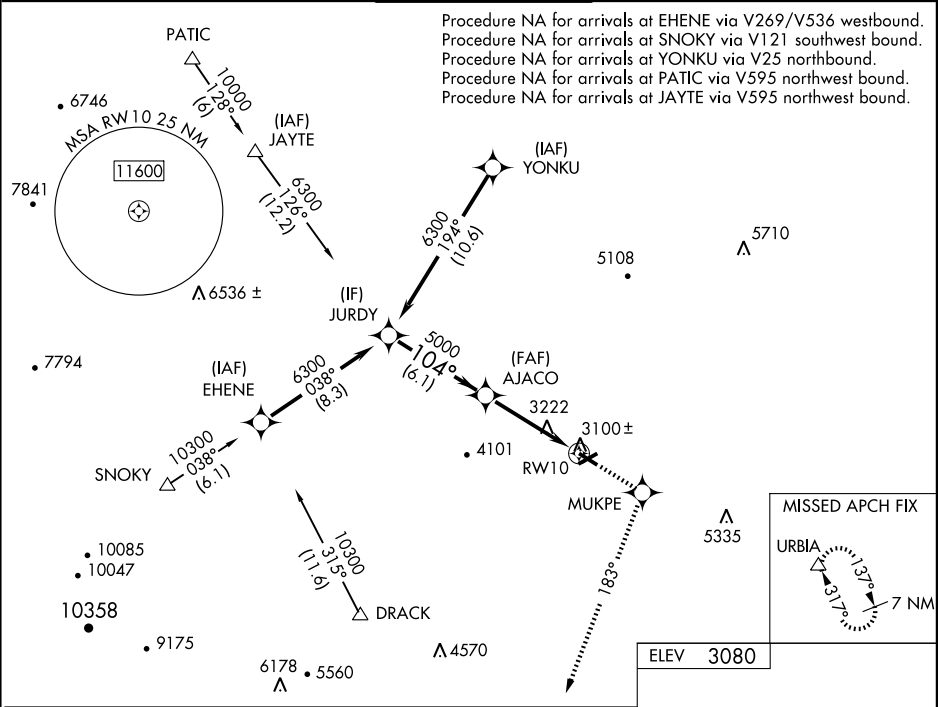
WAAS CH 53514 W10A	APP CRS 104°	Rwy Idg TDZE Apt Elev	7006 3067 3080
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RNAV (GPS) RWY 10

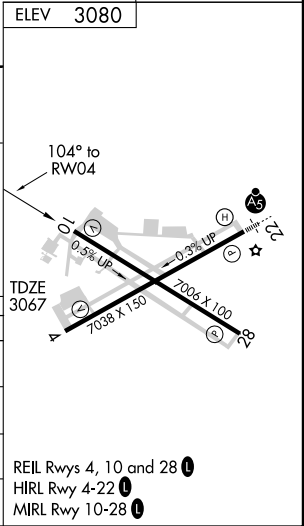
REDMOND/ROBERTS FIELD (RDM)

▽ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). When local altimeter setting not received, procedure NA.	MISSED APPROACH: Climb to 8500 direct MUKPE and via track 183° to URBIA and hold, continue climb-in-hold to 8500.
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ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA		JURDY	8500	MUKPE	183° trk	URBIA
		6300	AJACO			
		GS 3.00° TCH 50	5000	RW10		
		6.1 NM		5.9 NM		
CATEGORY	A	B	C	D		
LPV DA	3317-1		250 (300-1)			
LNAV/VNAV DA	3370-1		303 (300-1)			
LNAV MDA	3480-1 413 (400-1)		3480-1¼ 413 (400-1¼)			
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3640-2 560 (600-1)		



WAAS CH 82514 W22A	APP CRS 222°	Rwy Idg TDZE Apt Elev 7038 3065 3080
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RNAV (GPS) RWY 22
REDMOND/ROBERTS FIELD (RDM)

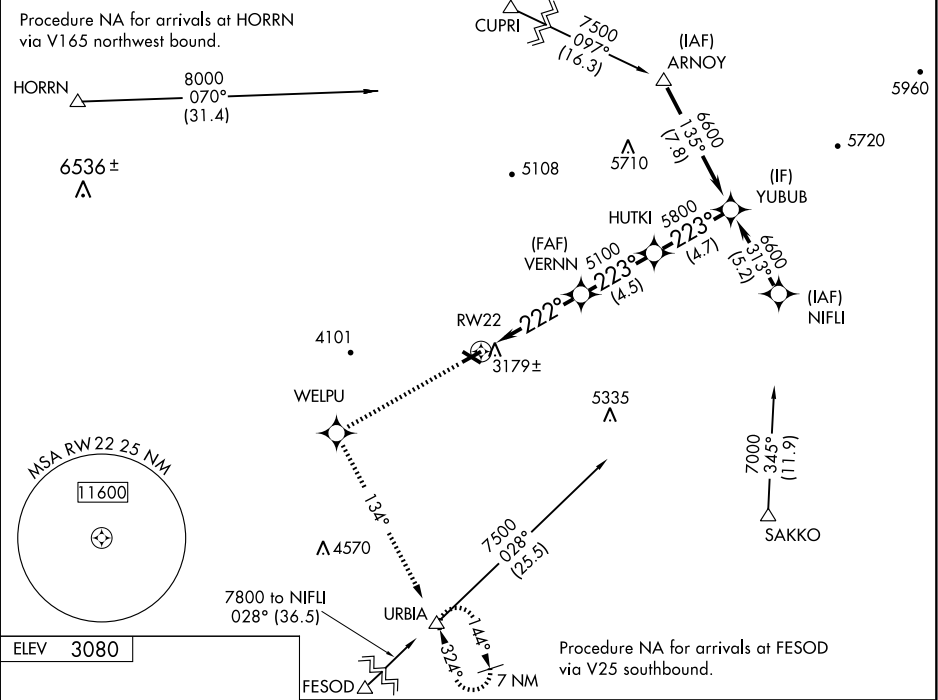
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA. For inoperative MALSR, increase LNAV Cat. D visibility to 1¼ mile.

MALSR

A5

MISSED APPROACH: Climb to 7600 direct WELPU and via track 134° to URBIA and hold, continue climb-in-hold to 7600.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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ELEV 3080		7600 WELPU 134° trk URBIA		VGSI and RNAV glidepath not coincident.	YUBUB	Procedure Turn NA
		* LNAV only.		HUTKI	6600	
* 1.1 NM to RW22		VERNN		5800	5100	GS 3.00° TCH 47
1.1 NM		5.1 NM		4.5 NM		4.7 NM
CATEGORY	A	B	C	D		
LPV DA	3265-½		200 (200-½)			
LNAV/VNAV DA	3449-1		384 (400-1)			
LNAV MDA	3440-½		375 (400-½)		3440-1 375 (400-1)	
CIRCLING	3480-1 400 (400-1)		3540-1 460 (500-1)		3540-1½ 460 (500-1½)	
				3640-2 560 (600-1)		

REIL Rwy 4, 10 and 28

HIRL Rwy 4-22

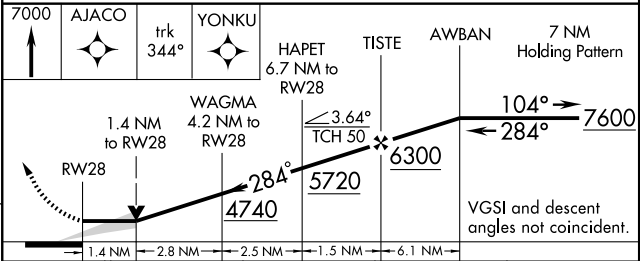
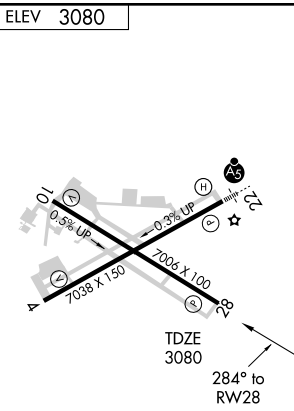
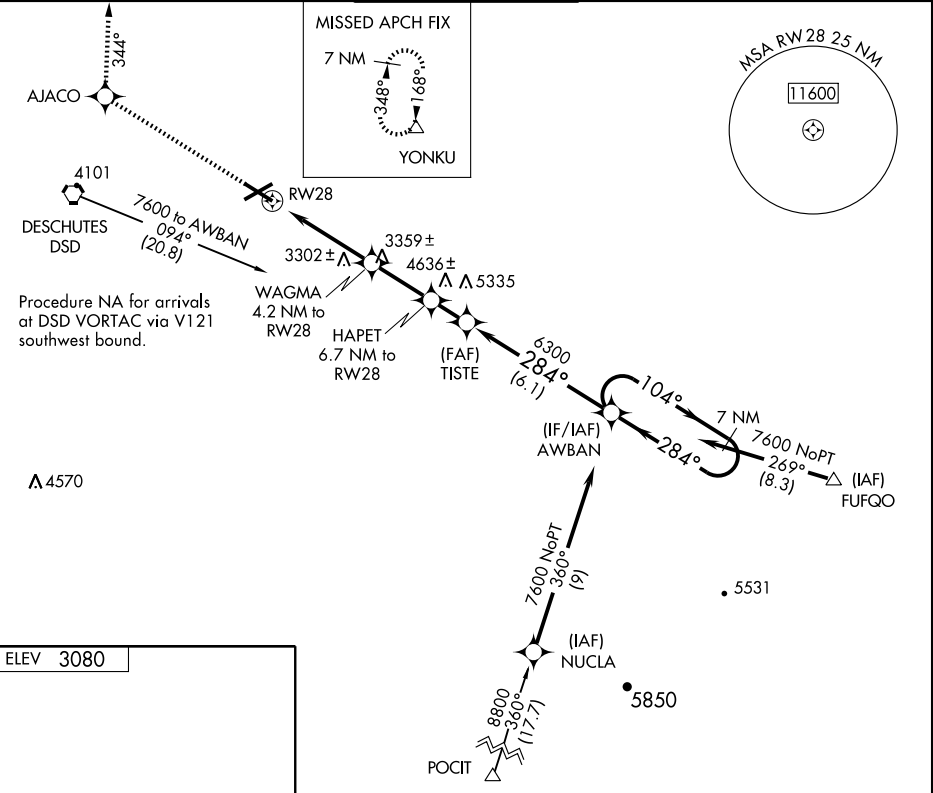
MIRL Rwy 10-28

APP CRS	Rwy Idg	7006
284°	TDZE	3080
	Apt Elev	3080

RNAV (GPS) Y RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA.		MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.		
ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95



REIL Rwy 4, 10 and 28			
HIRL Rwy 4-22			
MIRL Rwy 10-28			
CATEGORY	A	B	C
LNAV MDA	3560-1 480 (500-1)	3560-1 480 (500-1)	3560-1 480 (500-1)
CIRCLING	3560-1 480 (500-1)	3560-1 480 (500-1)	3560-1 480 (500-1)

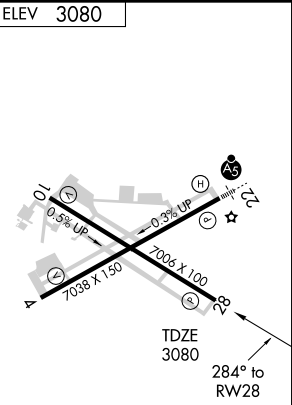
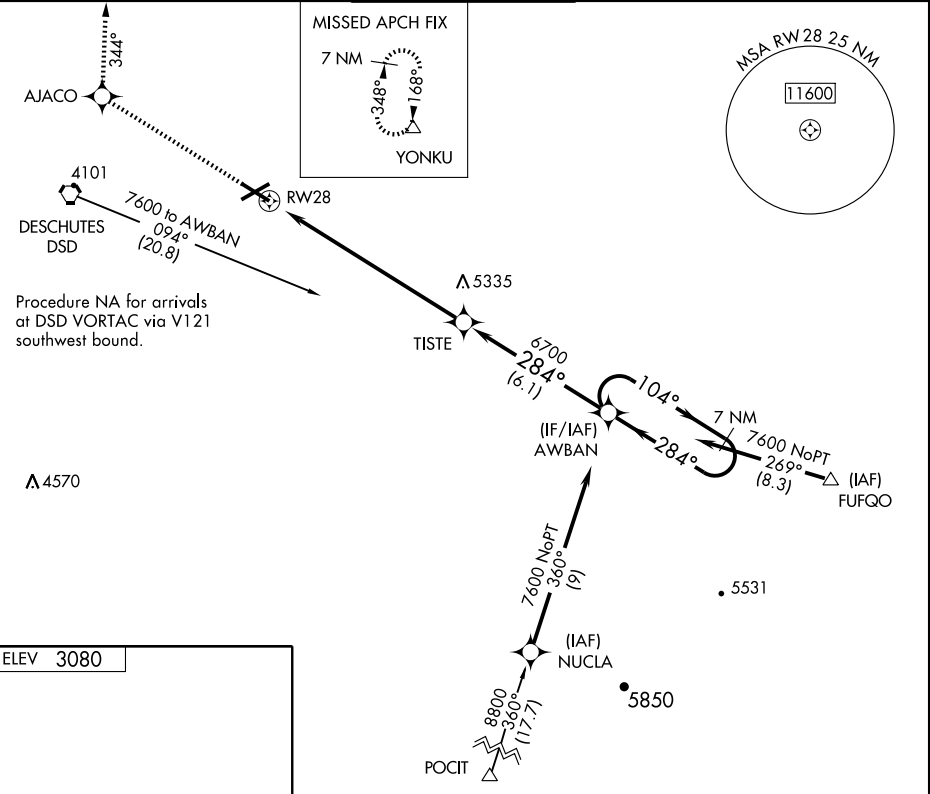
WAAS CH 90214 W28A	APP CRS 284°	Rwy Idg TDZE Apt Elev 7006 3080 3080
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RNAV (GPS) Z RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA. Circling requires descent on glidepath to MDA.	MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.
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ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95
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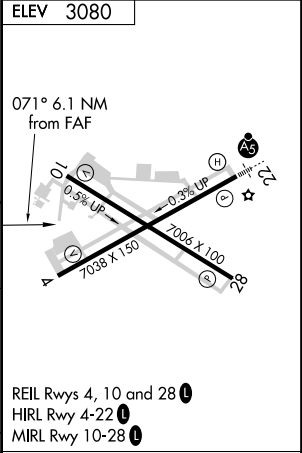
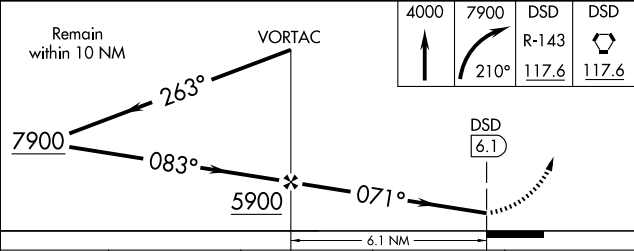
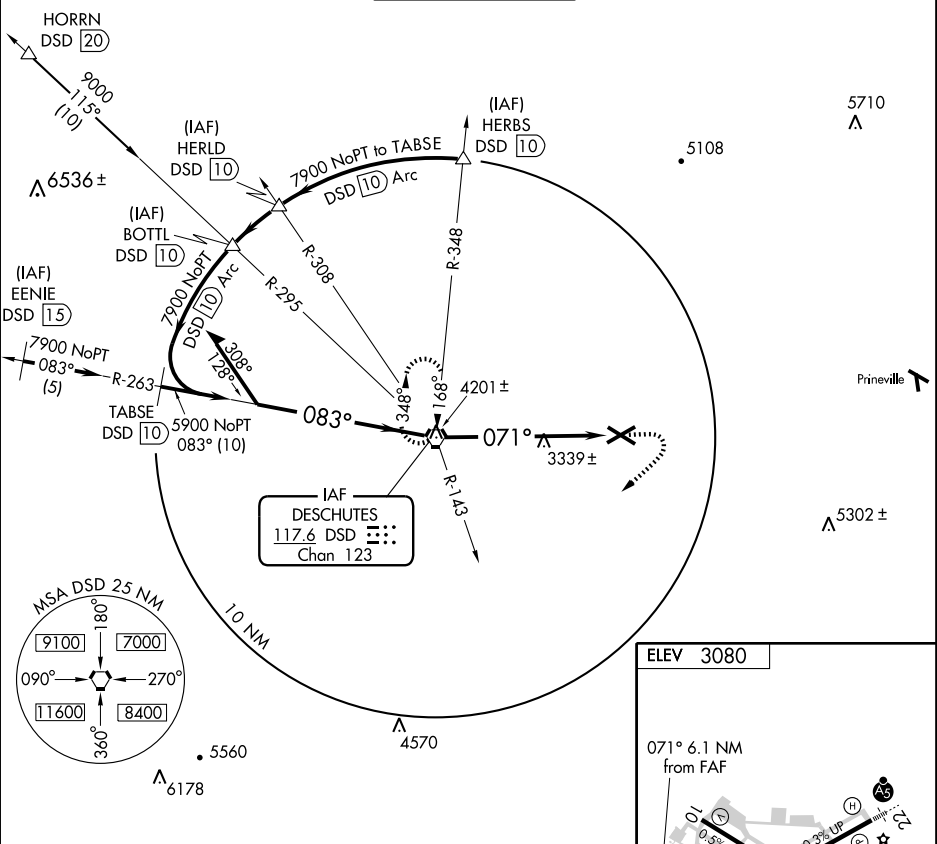
REIL Rwy 4, 10 and 28
HIRL Rwy 4-22
MIRL Rwy 10-28

7000 ↑	AJACO ✧	344° trk	YONKU ✧			
VGSI and RNAV glidepath not coincident.						
RW28				7 NM Holding Pattern		
8.2 NM				6.1 NM		
CATEGORY	A		B	C	D	
LPV DA	3366- ³ / ₄ 286 (300- ³ / ₄)		3366-1 286 (300-1)	NA		
CIRCLING	3480-1 400 (400-1)		3540-1 460 (500-1)	NA		

VORTAC DSD 117.6 Chan 123	APP CRS 071°	Rwy Idg TDZE Apt Elev 3080	N/A N/A
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MISSSED APPROACH: Climb to 4000 then climbing right turn to 7900 via heading 210° and DSD R-143 to DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D	FAF to MAP 6.1 NM					
CIRCLING	3600-1	520 (600-1)	3600-1½ 520 (600-1½)	3640-2 560 (600-2)	Knots	60	90	120	150	180
					Min:Sec	6:06	4:04	3:03	2:26	2:02

VORTAC DSD	APP CRS	Rwy Idg
117.6	249°	7038
Chan 123		3065
		Apt Elev
		3080

VOR/DME RWY 22

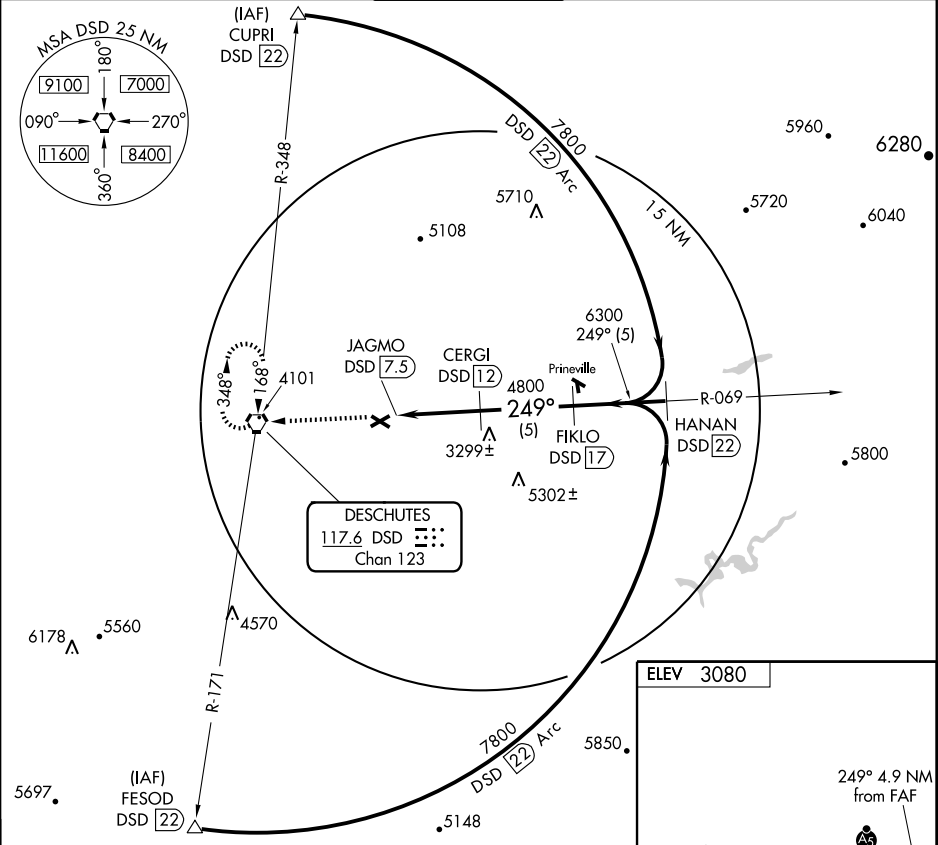
REDMOND/ROBERTS FIELD (RDM)

⚠ Inoperative table does not apply.

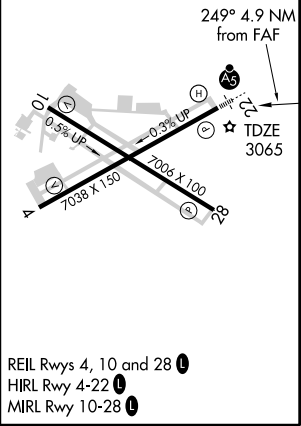
MALSR

MISSED APPROACH: Climb to 7000 direct DSD VORTAC and hold.

ATIS	SEATTLE CENTER	REDMOND TOWER★	GND CON	UNICOM
119.025	128.15 257.75	124.5 (CTAF) 0 256.8	121.8	122.95



7000	DSD				
↑	117.6				
	JAGMO DSD 7.5	DSD 9.7	CERGI DSD 12	FIKLO DSD 17	HANAN DSD 22
	0.4	2.2 NM	2.3 NM	5 NM	5 NM
	≤ 3.28°	TCH 55	4800	6300	7800
	249°				Procedure Turn NA
CATEGORY	A	B	C	D	E
S-22	4000-1¼ 935 (1000-1¼)		4000-2¾ 935 (1000-2¾)	4000-3 935 (1000-3)	
CIRCLING	4000-1¼ 920 (1000-1¼)		4000-2¾ 920 (1000-2¾)	4000-3 920 (1000-3)	



APP CRS	Rwy Idg	N/A
342°	TDZE	N/A
	Apt Elev	529

RNAV (GPS)-B
ROSEBURG RGNL (RBG)

T Circling NA east of Rwy 16-34.

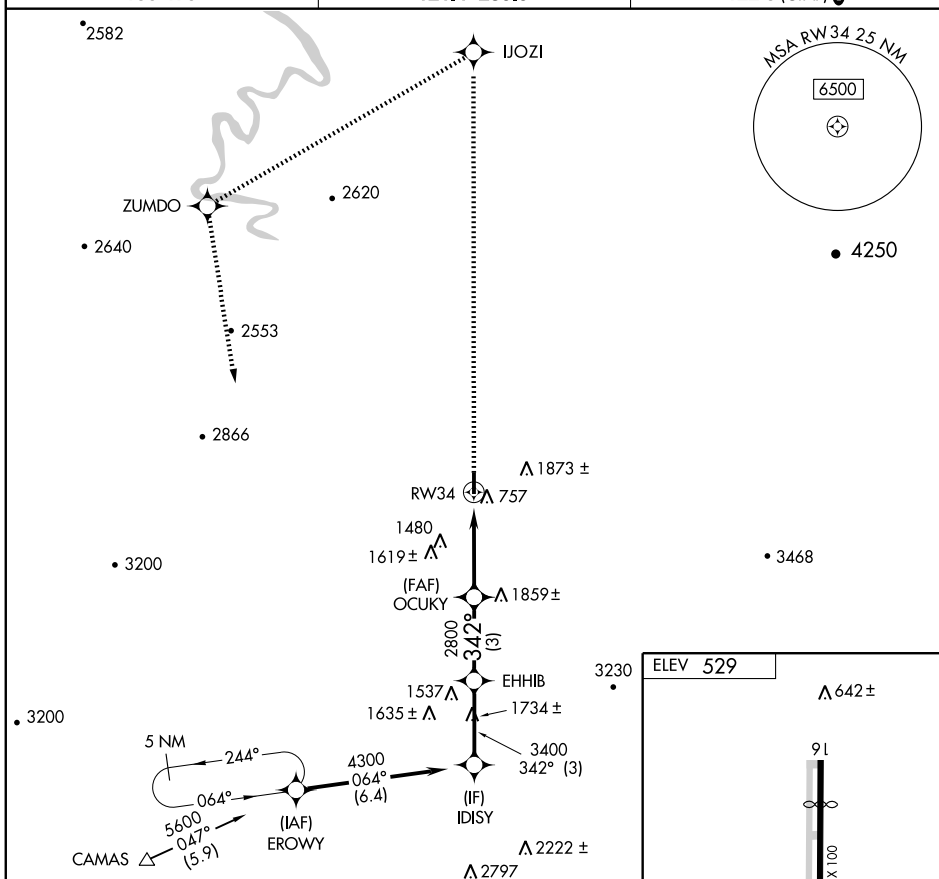
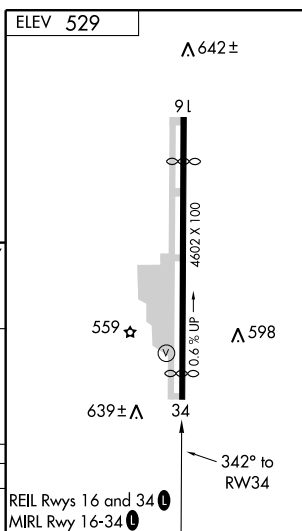
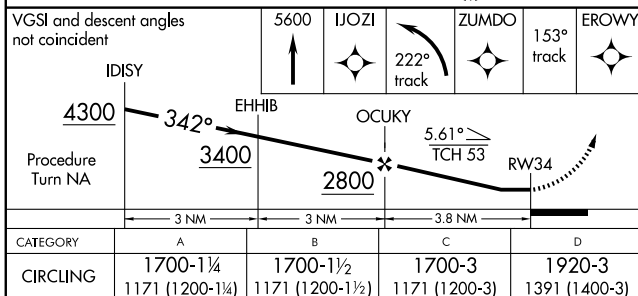
A If local altimeter setting not received, use North Bend altimeter setting and increase all MDAs 520 feet.

DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 5600 direct IJOZI and left turn via 222° track to ZUMDO and via 153° track to EROWY and hold.

ASOS
135.475

SEATTLE CENTER
121.4 239.0

UNICOM
122.8 (CTAF) **L**VGSI and descent angles
not coincident

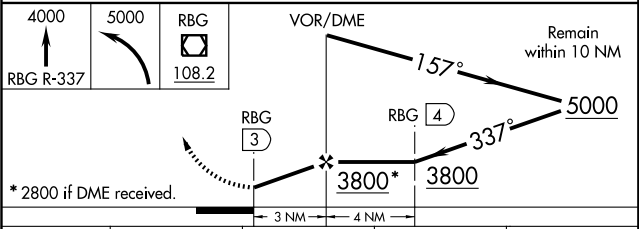
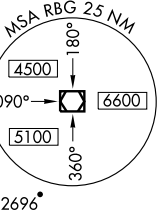
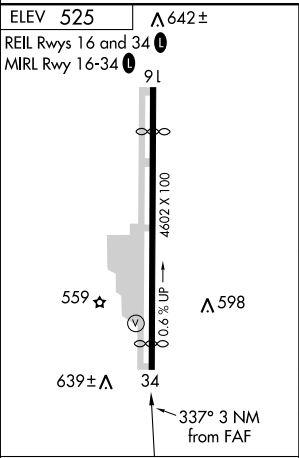
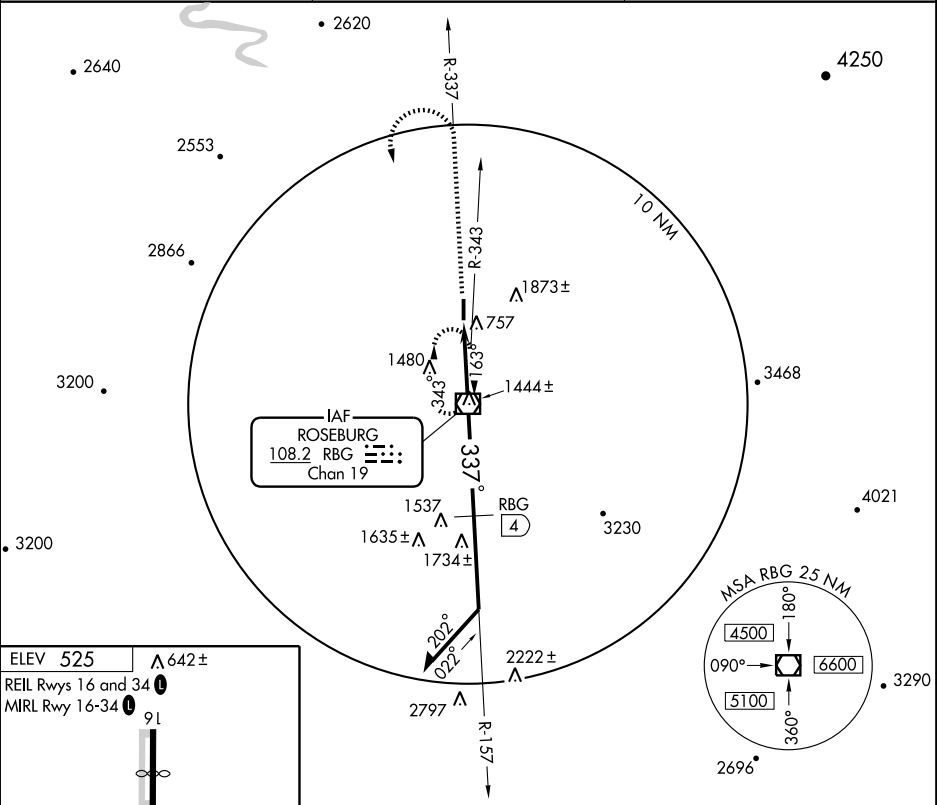
VOR/DME RBG 108.2 Chan 19	APP CRS 337°	Rwy Idg TDZE Apt Elev	N/A N/A 525
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VOR-A
ROSEBURG RGNL (RBG)

NA Circling not authorized east of Rwy 16-34.

MISSED APPROACH: Climb to 4000 via RBG R-337 within 1.5 NM; then climbing left turn to 5000 direct RBG VOR/DME and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF)
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FAF to MAP 3 NM					
Knots	60	90	120	150	180
Min:Sec	3:00	2:00	1:30	1:12	1:00
CIRCLING					
DME MINIMUMS					
CIRCLING					
2600-1¼ 2075 (2100-1¼)		2600-1½ 2075 (2100-1½)		2600-3 2075 (2100-3)	
1740-1¼ 1215 (1300-1¼)		1740-1½ 1215 (1300-1½)		1740-3 1395 (1400-3)	

AIRPORT DIAGRAM

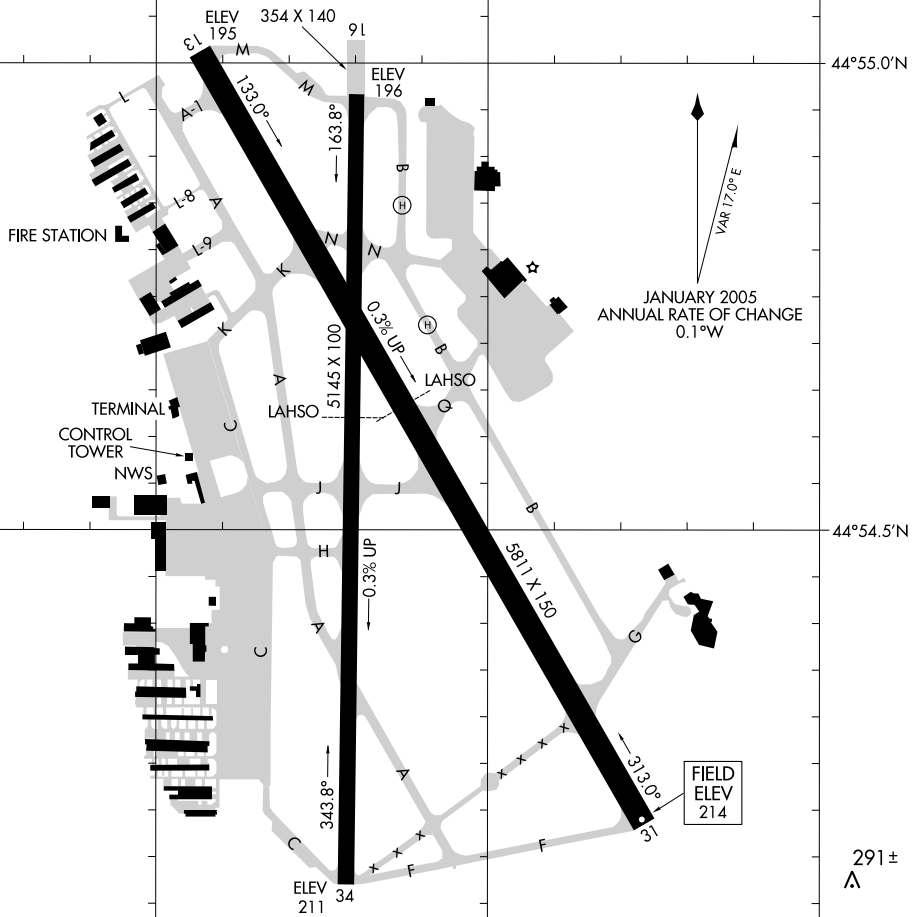
AL-361 (FAA)

SALEM/MCENARY FIELD (SLE)

SALEM, OREGON

ATIS 124.55
SALEM TOWER ★
119.1 257.2
GND CON
121.9

RWY 13-31
S100, D122, ST154, DT185
RWY 16-34
S30, D60, DT100




123°00.5'W

123°00.0'W

122°59.5'W

LOC/DME I-SLE <u>110.3</u> Chan 40	APP CRS 313°	Rwy Idg 5811 TDZE 214 Apt Elev 214
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ILS or LOC RWY 31
SALEM/McNARY FIELD (SLE)

 *RVR 1800 authorized with the use of FD or AP or HUD to DA.
When local altimeter setting not received, use Mc Minnville
altimeter setting and increase DA 49 feet, and all MDA 60 feet;
increase circling Cat D visibility to 2 3/4 miles.
VDP NA when using Mc Minnville altimeter setting.

MALSR

MISSED APPROACH: Climb to 4000 via I-SLE NW course to ARTTY FM/INT/I-SLE 5.6 DME and hold, continue climb-in-hold to 4000.

ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1 (CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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ALTERNATE MISSED
APCH FIX

TURNO
SL : ::
266

Procedure NA for arrivals at JAIME
via V536 eastbound.
Procedure NA for arrivals at GLORR
via V448 southbound.

ELEV	214	MIRL Rwy 16-34
REIL Rwy 13, 16 and 34		
HIRL Rwy 13-31		

[illegible]

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:51

[illegible]

4000
↑
I-SLE
NW course

ARTTY
FM/INT
I-SLE 5.6

LOTKE INT
I-SLE 6.8

One Minute
Holding Pattern

I-SLE 1.1

I-SLE 3.3

2100

133° →

← 313°

2400

2100

313°

GS 3.00°
TCH 42

CATEGORY	A	B	C	D
S-ILS 31	*414/24 200 (200-½)			
S-LOC 31	960/24 746 (800-½)	960/40 746 (800-¾)	960-1¾ 746 (800-1¾)	960-2 746 (800-2)
CIRCLING	960-1 746 (800-1)	960-1¼ 746 (800-1¼)	960-2¼ 746 (800-2¼)	1000-2½ 786 (800-2½)

NW-1. 22 OCT 2009 to 19 NOV 2009

LOC/DME I-SLE 110.3 Chan 40	APP CRS 133°	Rwy Idg 5811 TDZE 204 Apt Elev 214
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LOC BC RWY 13

SALEM/ McNARY FIELD (SLE)

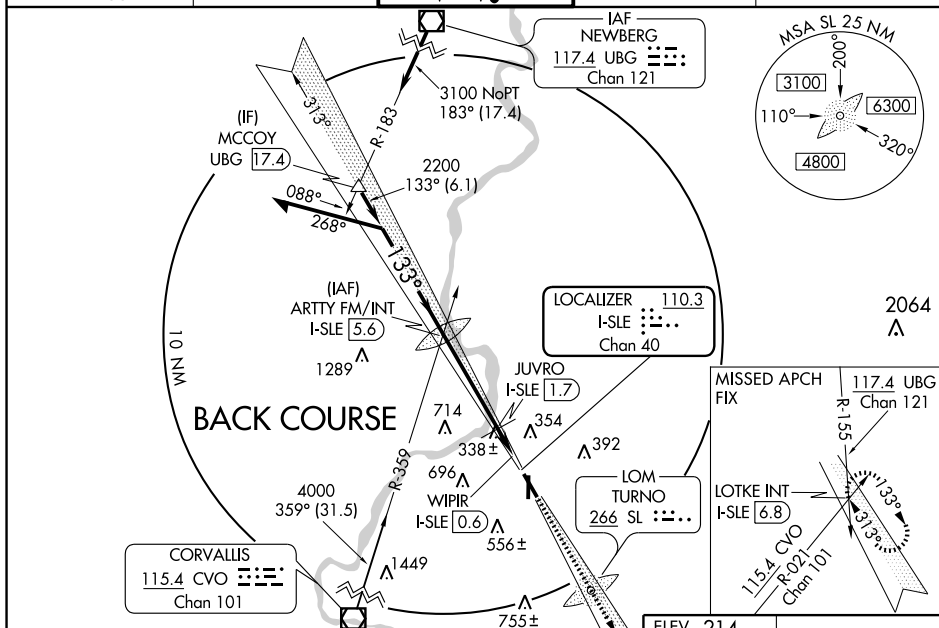
NA Inoperative table does not apply to S-13 Cat C or when using McMinville altimeter setting to S-13 Cat C and JUVRO fix minimums Cat C.
ARTTY INT not authorized for final approach fix.
When local altimeter setting not received, use McMinville altimeter setting and increase all MDA 60 feet and Cat C and D visibility $\frac{1}{4}$ mile, for JUVRO fix minimums, increase S-13 Cat C visibility $\frac{1}{2}$ mile, Cat D visibility $\frac{1}{4}$ mile.

ODALS

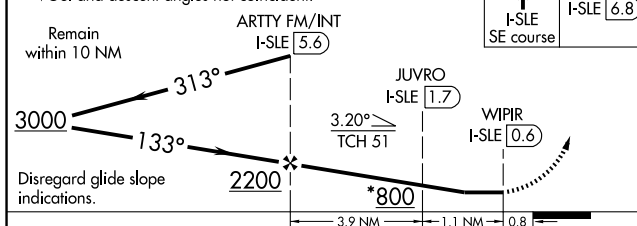


MISSED APPROACH: Climb to 2400 via I-SLE SE course to LOTKE INT/ I-SLE 6.8 DME and hold, continue climb-in-hold to 2400.

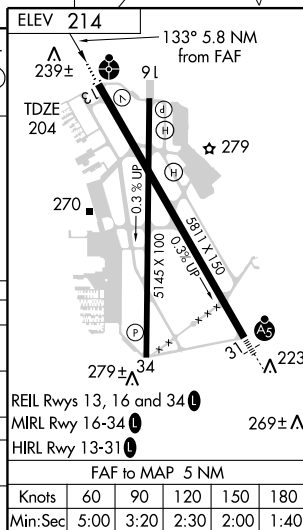
ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1 (CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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* 860 when using Mc Minville altimeter setting.
VGSI and descent angles not coincident.



CATEGORY	A	B	C	D
S-13	800- $\frac{3}{4}$	596 (600- $\frac{3}{4}$)	800-1 $\frac{1}{2}$	800-1 $\frac{3}{4}$
			596 (600-1 $\frac{1}{2}$)	596 (600-1 $\frac{3}{4}$)
CIRCLING	900-1	940-1	940-2	1000-2 $\frac{1}{2}$
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2 $\frac{1}{2}$)
JUVRO FIX MINIMUMS				
S-13	600- $\frac{3}{4}$	396 (400- $\frac{3}{4}$)		600-1 $\frac{1}{4}$
				396 (400-1 $\frac{1}{4}$)
CIRCLING	900-1	940-1	940-2	1000-2 $\frac{1}{2}$
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2 $\frac{1}{2}$)



LOC/DME I-SLE	APP CRS	Rwy Idg	5811
110.3	313°	TDZE	214
Chan 40		Apt Elev	214

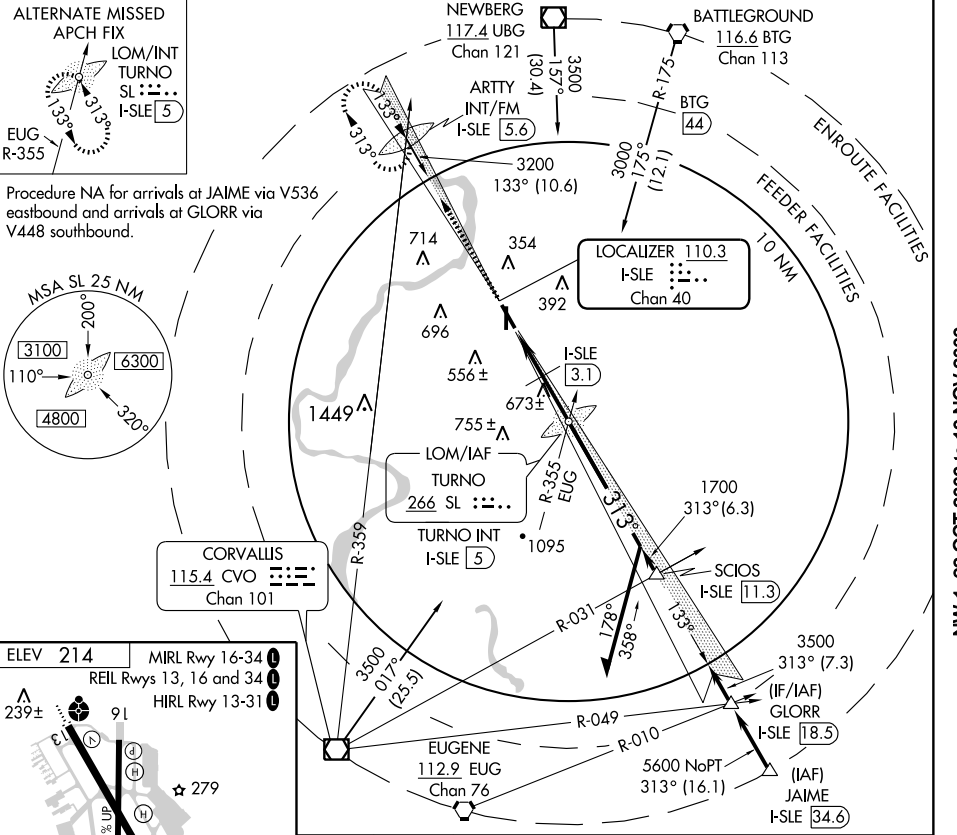
▼

▲

MALSRL

MISSED APPROACH: Climb to 4000 via I-SLE LOC northwest course to ARTTY FM/I-SLE 5.6 DME and hold, continue climb-in-hold to 4000.

ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER★ 119.1 (CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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ARTTY INT I-SLE 5.6					TURN0 LOM/INT I-SLE 5					Remain within 10 NM				
I-SLE LOC					I-SLE 1.1					I-SLE 2.5				
I-SLE 3.1					I-SLE 3.1					I-SLE 3.1				
TCH 55					TCH 55					TCH 55				
960					960					1700				
1.4 NM					0.6					1.9 NM				
CATEGORY					A					B				
S-31					780/24					566 (600-½)				
CIRCLING					900-1					940-1				
Knots					60					90				
Min:Sec					120					150				
180					780/50					780/60				
566 (600-1)					566 (600-1¼)					1000-2½				
726 (800-2)					726 (800-2½)					786 (800-2½)				

NW-1. 22 OCT 2009 to 19 NOV 2009

WAAS CH 86202 W31A	APP CRS 313°	Rwy Idg 5811 TDZE 214 Apt Elev 214
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RNAV (GPS) RWY 31

SALEM/ MCNARY FIELD (SLE)

T Inoperative table does not apply to LNAV/VNAV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McMinville altimeter setting and increase all DA 49 feet; increase all MDA 60 feet and LNAV and circling visibility Cats B/C/D ¼ mile. Baro-VNAV and VDP NA when using McMinville altimeter setting.

MAISR



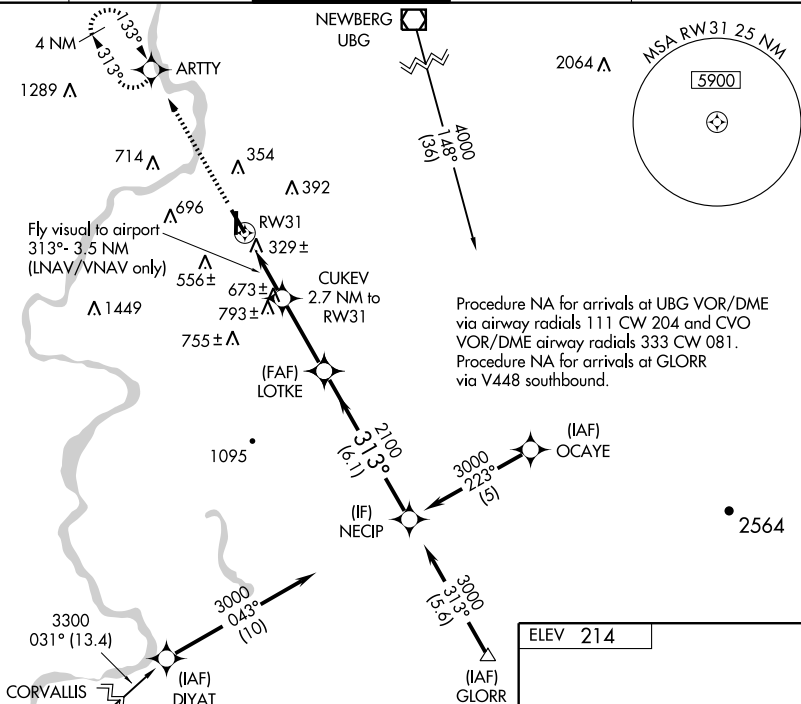
MISSED APPROACH: Climb to 3700 direct ARTTY and hold, continue climb-in-hold to 3700.

ATIS
124.55

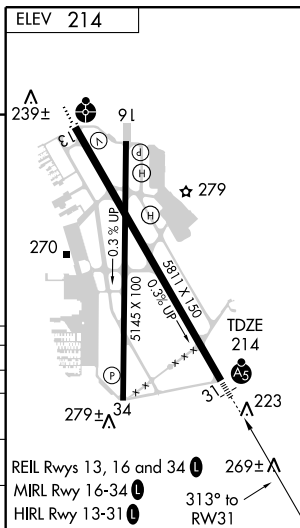
SEATTLE CENTER
125.8 291.7

SALEM TOWER★
119.1 (CTAF) **L** 257.2

GND CON
121.9

UNICOM
122.95

CATEGORY		A		B		C		D	
LPV	DA	414/24 200 (200-½)							
LNAV/	DA	1334-2 1120 (1200-2)				1334-3 1120 (1200-3)			
LNAV	MDA	940/24 726 (800-½)				940-1½ 726 (800-1½)		940-1¾ 726 (800-1¾)	
CIRCLING		940-1 726 (800-1)				940-2 726 (800-2)		1000-2 ½ 786 (800-2 ½)	



SALEM TWO DEPARTURE

SL-361 (FAA)

SALEM/McNARY FIELD (SLE)
SALEM, OREGON

GND CON

121.9

SALEM TOWER ★

119.1 (CTAF) 257.2

SEATTLE CENTER

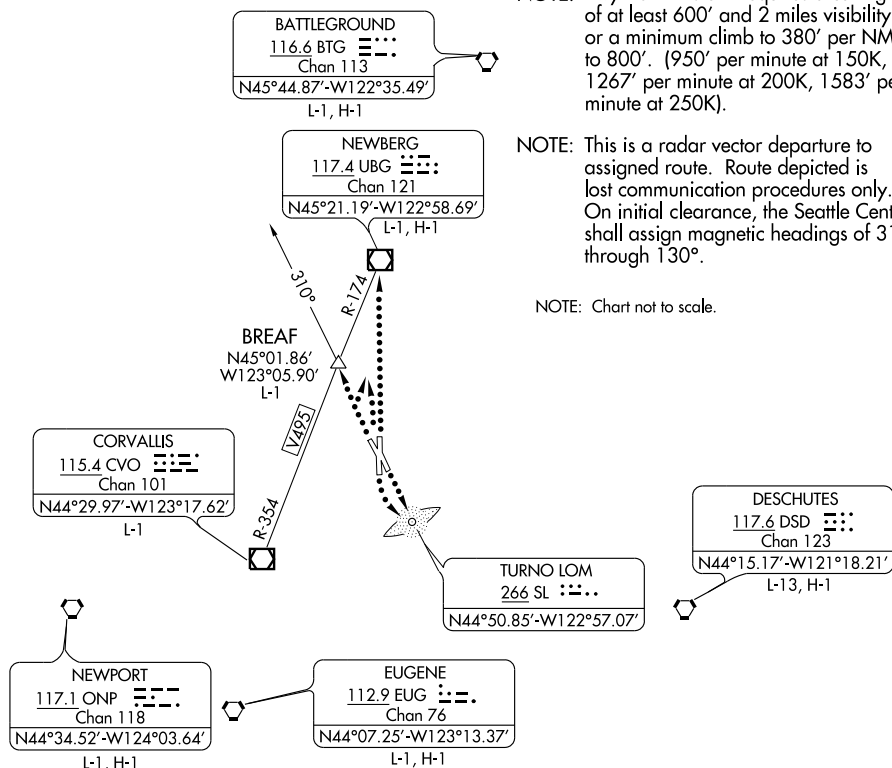
125.8 291.7

NOTE: Rwy 13-This SID requires a ceiling of at least 600' and 2 miles visibility, or a minimum climb of 240' per NM to 800'. (600' per minute at 150K, 800' per minute at 200K, 1000' per minute at 250K).

NOTE: Rwy 16 - This SID requires a ceiling of at least 600' and 2 miles visibility or a minimum climb to 380' per NM to 800'. (950' per minute at 150K, 1267' per minute at 200K, 1583' per minute at 250K).

NOTE: This is a radar vector departure to assigned route. Route depicted is lost communication procedures only. On initial clearance, the Seattle Center shall assign magnetic headings of 310° through 130°.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Climb via specified turn and heading, contact Seattle Center for vectors to assigned route.

LOST COMMUNICATIONS: If not in contact with Seattle Center after reaching 2000', continue climb to assigned altitude.

Take-off runways 13 and 16: (Rwy 16 turn left) proceed direct to SL LOM thence via (assigned route).

Take-off runways 31 and 34: (Rwy 31 right turn) proceed direct to UBG VOR/DME thence via (assigned route).

Helicopter only-runways 31 and 34: (Rwy 34 turn left) intercept and proceed outbound on the SL LOM 310° bearing to BREA INT, thence via (assigned route).

LOC/DME I-FKO <u>111.1</u> Chan 48	APP CRS 149°	Rwy Idg 5100 TDZE 55 Apt Elev 55
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LOC/DME RWY 15
SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

T Circling not authorized west of Rwy 15-33.

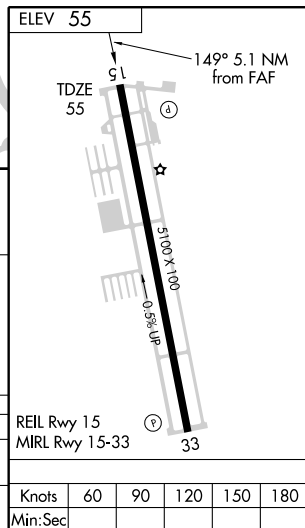
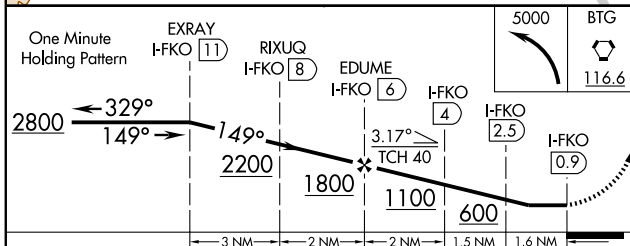
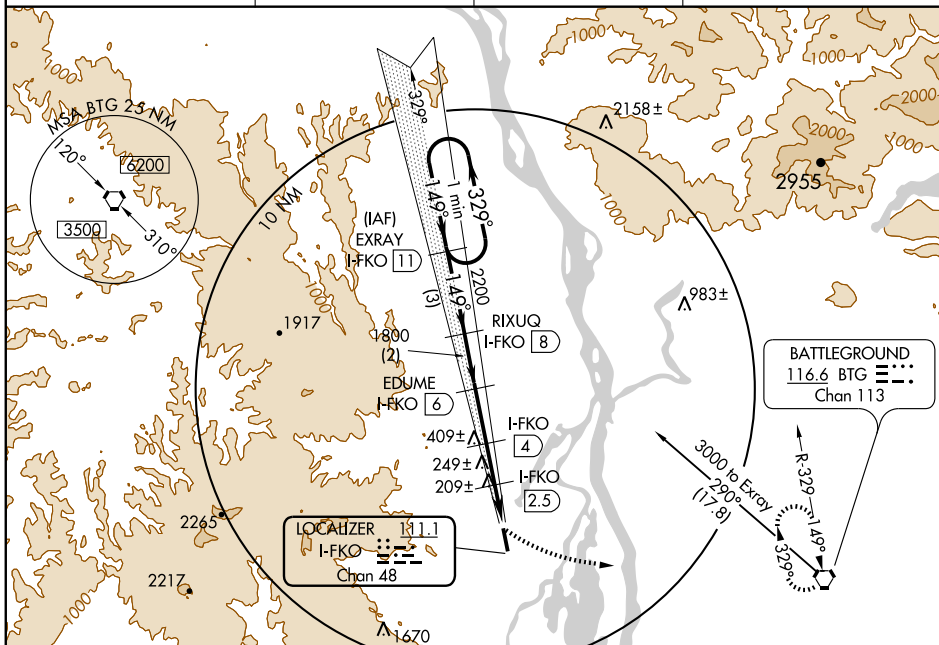
MISSED APPROACH: Climbing left turn to 5000 direct BTG VORTAC and hold.

ASOS
135.875

PORTLAND APP CON
124.35 299.2

CLNC DE
121,65

UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
S-15	460-1 405 (500-1)		460-1¼ 405 (500-1¼)	
CIRCLING	480-1 425 (500-1)	520-1 465 (500-1)	520-1½ 465 (500-1½)	620-2 565 (600-2)

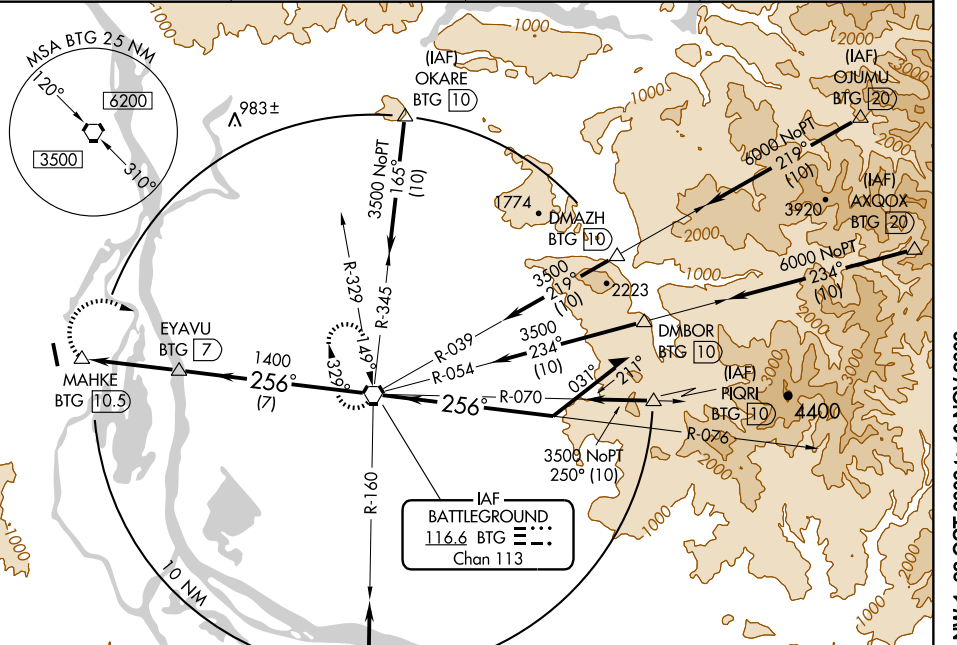
VORTAC BTG	APP CRS	Rwy Idg TDZE	N/A
116.6	256°	Apt Elev	55
Chan 113			

▼

▲

MISSED APPROACH: Climbing right turn to 4200 direct BTG VORTAC and hold.

ASOS 135.875	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 122.8 (CTAF)
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ELEV 55

REIL Rwy 15
MIRL Rwy 15-33

4200	BTG	Remain within 10 NM
116.6		

MAHKE BTG 10.5

EYAVU BTG 7

VORTAC

076°

256°

5600

3500

1400

0.8

3.5 NM

7 NM

CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	680-1 625 (700-1)	940-1¼ 885 (900-1¼)	1000-2¾ 945 (1000-2¾)	1260-3 1205 (1300-3)	Min:Sec					

APP CRS
178°

Rwy Idg
4467

TDZE
4162

Apt Elev
4164

RNAV (GPS) RWY 18

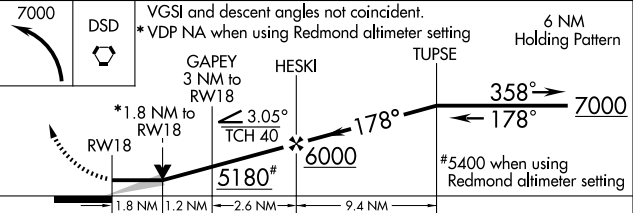
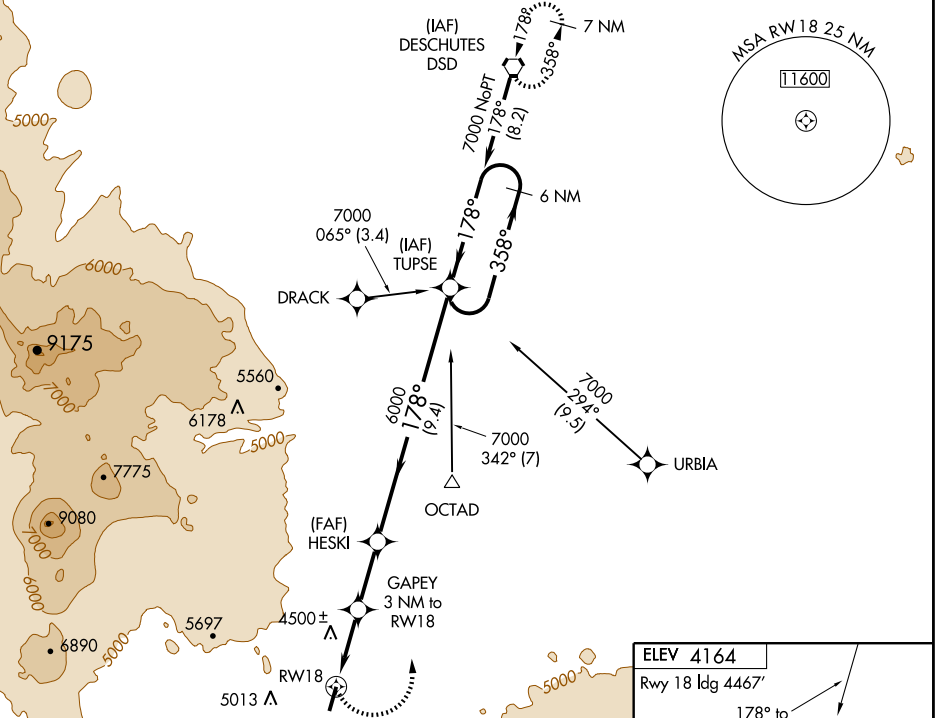
SUNRIVER (S21)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling not authorized at night to Rwy 36.
Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

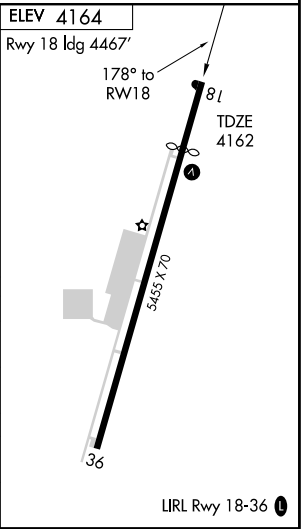
MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.

SEATTLE CENTER
128.15 257.75

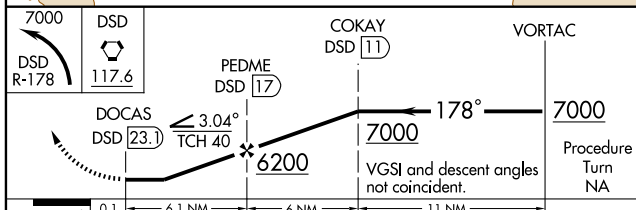
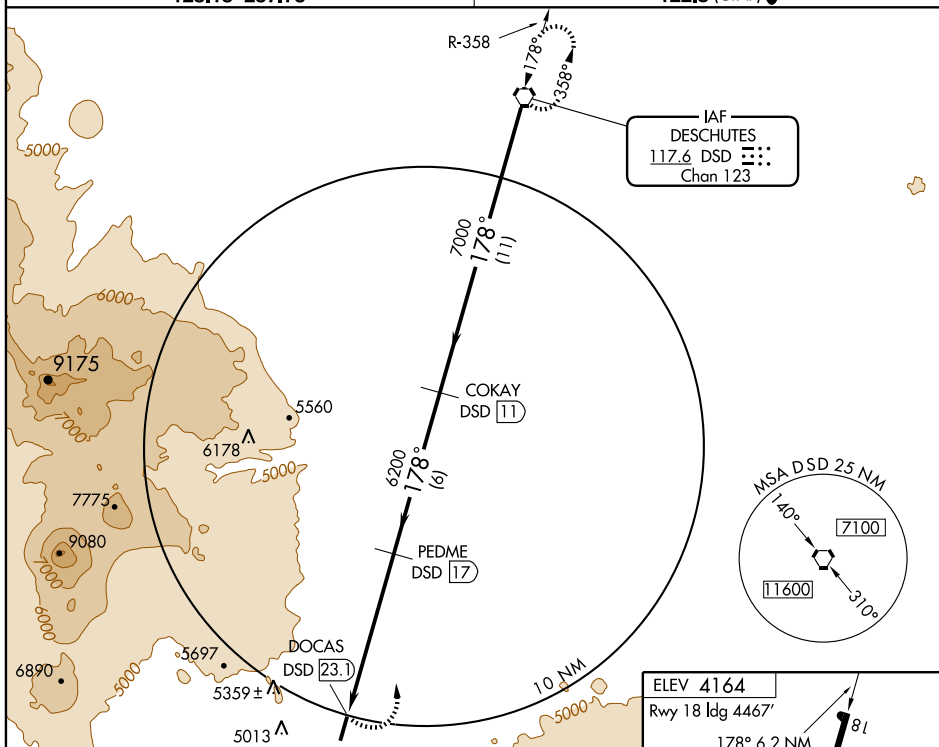
UNICOM
122.8 (CTAF) 1



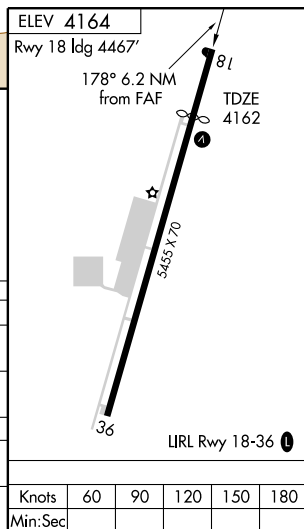
CATEGORY	A	B	C	D
LNAV MDA	4760-1	598 (600-1)	4760-1½ 598 (600-1½)	4960-2½ 798 (800-2½)
CIRCLING	4920-1 756 (800-1)	4920-1¼ 756 (800-1¼)	5040-2½ 876 (900-2½)	5380-3 1216 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
LNAV MDA	4980-1 818 (900-1)	4980-1¼ 818 (900-1¼)	4980-2½ 818 (900-2½)	4980-2¾ 818 (900-2¾)
CIRCLING	5140-1¼ 976 (1000-1¼)	5140-1½ 976 (1000-1½)	5260-3 1096 (1100-3)	5580-3 1366 (1400-3)



MISSED APPROACH: Climbing left turn to 7000 via DSD R-178 to DSD VORTAC and hold.

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
S-18	5440-1¼ 1278 (1300-1¼)	5440-1½ 1278 (1300-1½)	5440-3	1278 (1300-3)
CIRCLING	5440-1¼ 1276 (1300-1¼)	5440-1½ 1276 (1300-1½)	5440-3	1276 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
S-18	5660-1¼ 1498 (1500-1¼)	5660-1½ 1498 (1500-1½)	5660-3	1498 (1500-3)
CIRCLING	5660-1¼ 1496 (1500-1¼)	5660-1½ 1496 (1500-1½)	5660-3	1496 (1500-3)



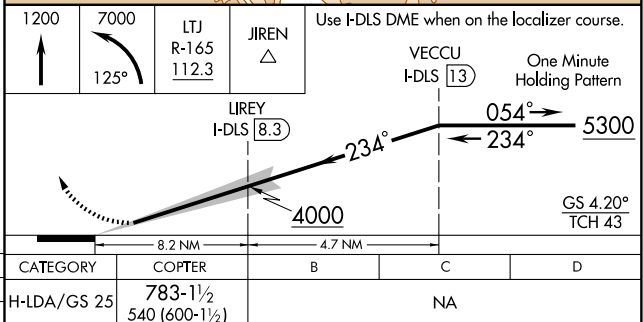
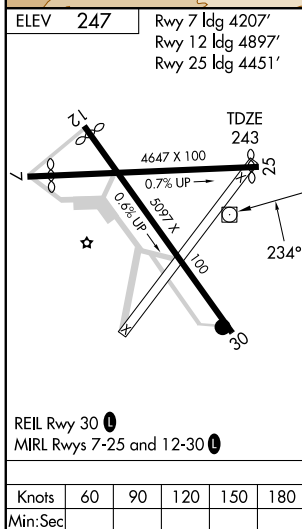
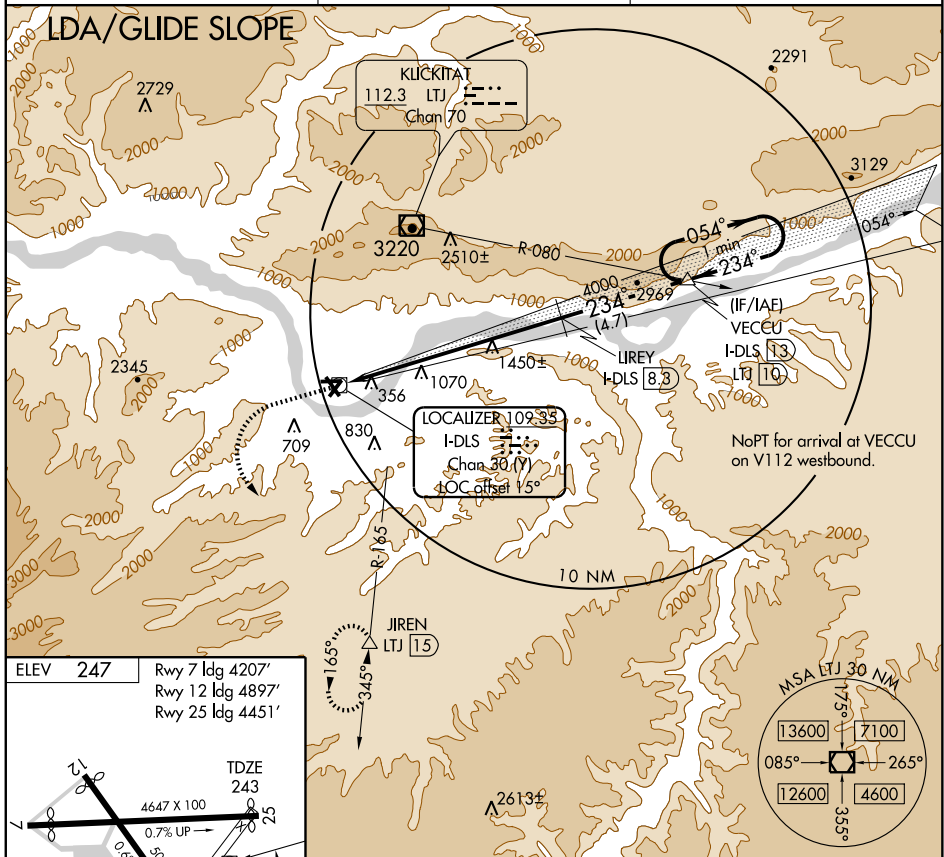
LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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COPTER LDA/DME RWY 25

THE DALLES/COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

<p>▼ Glide slope provided by standard glide slope equipment.</p> <p>▲ NA If local altimeter setting not received, procedure NA.</p>	<p>MISSED APPROACH: Climb to 1200 then climbing left turn to 7000 via heading 125° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.</p>
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ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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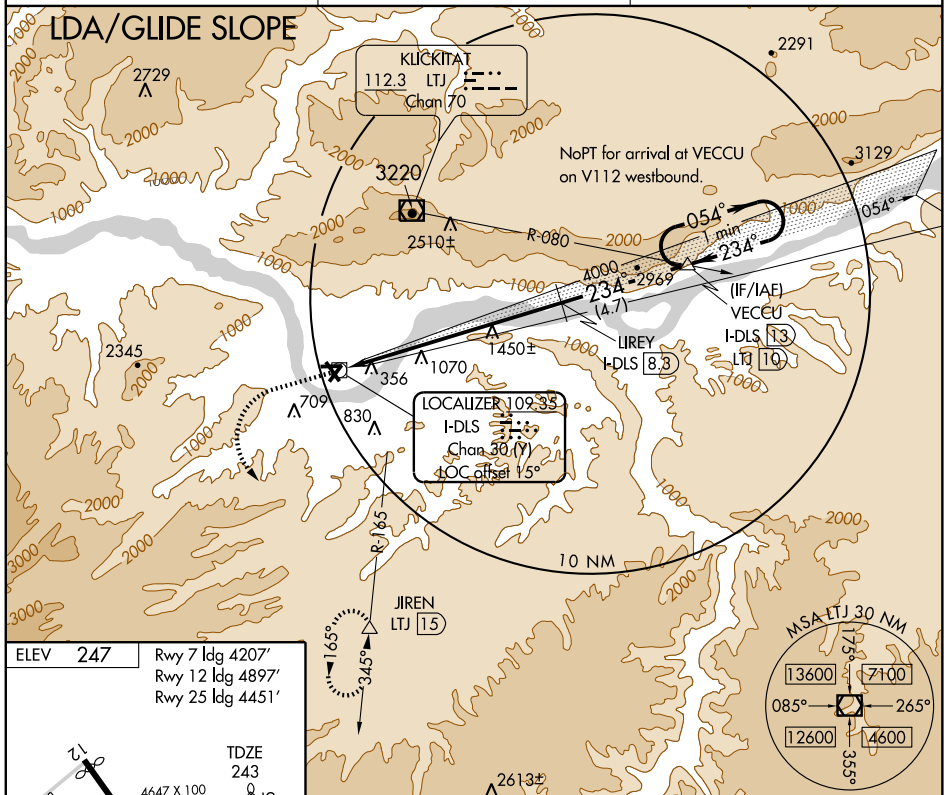
THE DALLES/
COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

LDA/DME RWY 25

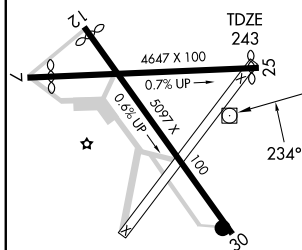
NA Circling requires descent on GS to MDA.
Glide slope provided by standard glide slope equipment.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1600 then climbing left turn to 7000 via heading 135° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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ELEV 247	Rwy 7 Idg 4207'
	Rwy 12 Idg 4897'
	Rwy 25 Idg 4451'



REIL Rwy 30 0
MIRL Rws 7-25 and 12-30 0

Knots	60	90	120	150	180
Min:Sec					

	1600	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.	VECCU I-DLS 13	One Minute Holding Pattern
	↑	↻ 135°					
			LIREY I-DLS 8.3			054° → 5300	GS 4.20° TCH 43
			8.2 NM	4.7 NM			
CATEGORY	A	B	C	D			
S-LDA/GS 25	1368-2¾	1125 (1200-2¾)			NA		
CIRCLING	1380-3	1133 (1200-3)			NA		

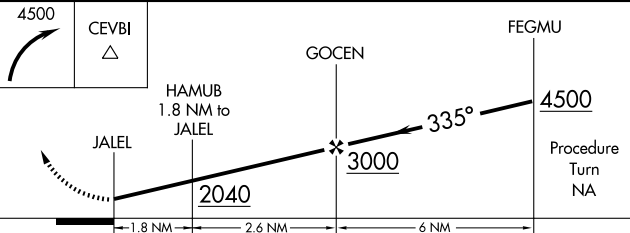
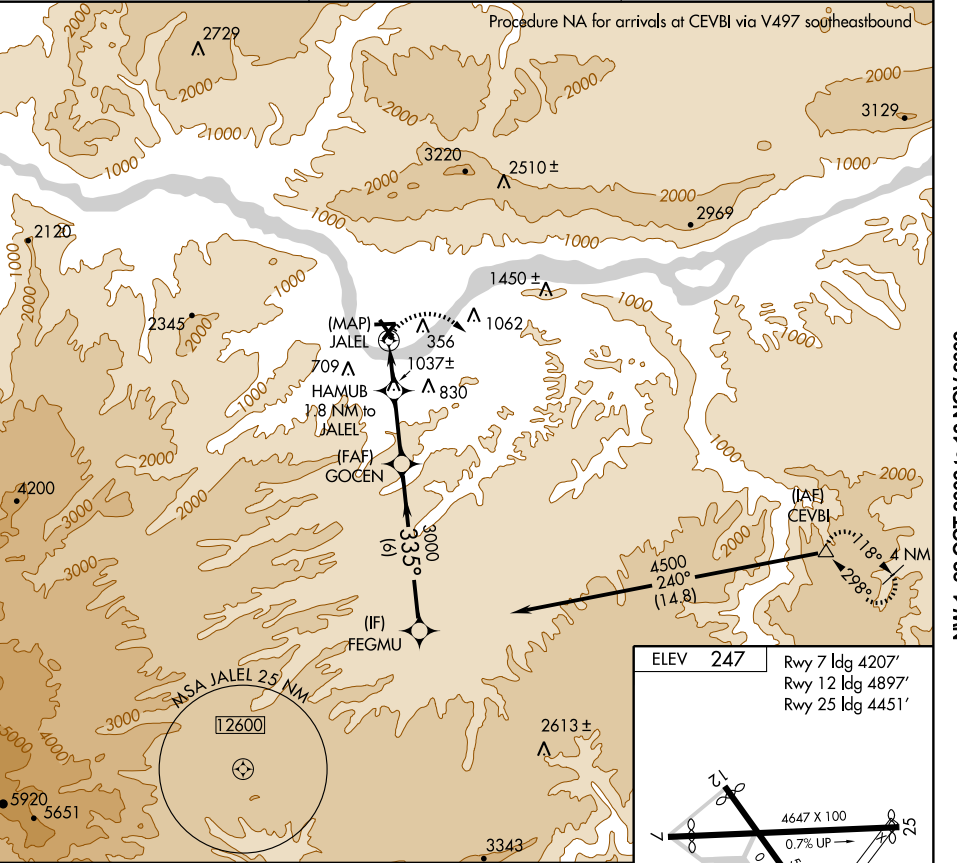
▼

▲

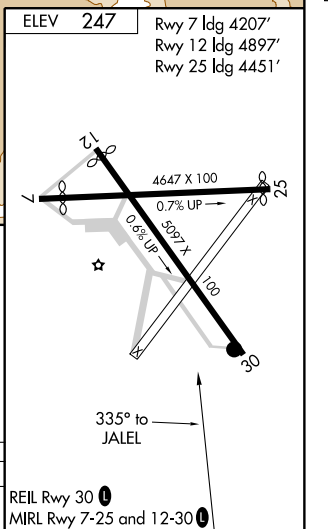
DME/DME RNP-0.3 NA. Circling to Rwy 7 NA at night.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 4500 direct CEVBI and hold.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF)
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CATEGORY	A	B	C	D
CIRCLING	1320-1¼ 1073 (1100-1¼)	1320-1½ 1073 (1100-1½)	1320-3 1073 (1100-3)	1360-3 1113 (1200-3)



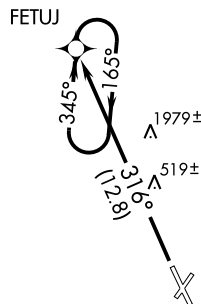
NW-1, 22 OCT 2009 to 19 NOV 2009

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.45

CONTIGUOUS U. S. ADIZ

W-570

W-570



NOTE: 1. GPS required
2. RNAV 1

NOTE: Rwy 31: 2000-3 or standard with minimum climb
of 350' per NM to 4500'.
Rwys 1, 13, and 19 not authorized for this
Departure Procedure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31: Climb to 5000 via 316° course to FETUJ WP.

Northbound aircraft continue on course to assigned altitude.

Southbound aircraft continue climb in FETUJ WP holding pattern (south, right turn, 345° inbound) to MEA for assigned route before proceeding on course.

APP CRS	Rwy Idg	5001
136°	TDZE	28
	Apt Elev	36

RNAV (GPS) RWY 13
TILLAMOOK (TMK)

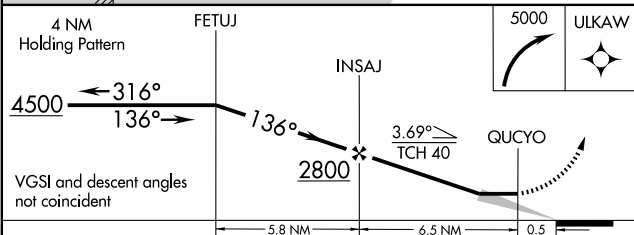
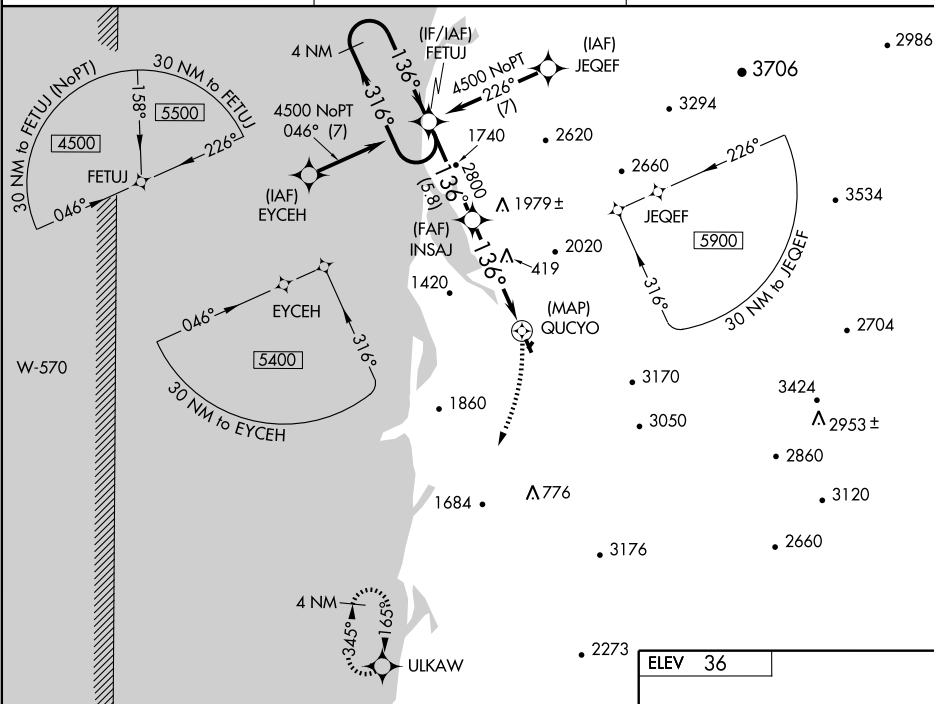
TILLAMOOK (TMK)

T When local altimeter setting not received, use Astoria altimeter setting.
NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
 Circling NA Rwy 1-19 at night.

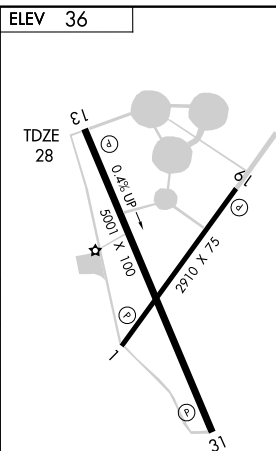
MISSED APPROACH: Climbing right turn to 5000 direct ULKAW WP and hold.

AWOS-3
120.0

SEATTLE CENTER
124.2 317.6

UNICOM
122.8 (CTAF) **L**

CATEGORY	A	B	C	D
LNAV MDA	760-1	732 (800-1)	760-2 732 (800-2)	NA
CIRCLING	880-1 844 (900-1)	920-1¼ 884 (900-1¼)	920-2¾ 884 (900-2¾)	NA
ASTORIA ALTIMETER SETTING MINIMUMS				
LNAV MDA	1280-1¼ 1252 (1300-1¼)	1280-1½ 1252 (1300-1½)	1280-3 1252 (1300-3)	NA
CIRCLING	1420-1¼ 1384 (1400-1¼)	1460-1½ 1424 (1500-1½)	1460-3 1424 (1500-3)	NA



REIL Rwy 13
MIRL Rwy 1-19 and 13-31 **L**

INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2½.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2¾.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Category A, 1100-4; Categories B,C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
VOR/DME Rwy 3
VOR Rwy 21

NA when local weather not available.

Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¾**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR or GPS Rwy 7¹**
VOR or GPS Rwy 25²

¹Category D, 800-2¾.

²Categories A,B, 1000-2; Categories C,D,
1000-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷
 VOR-A⁸
 VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

LEWISTON, ID

LEWISTON-NEZ PERCE

COUNTY **ILS Rwy 26¹²**

RNAV (GPS) Rwy 8³

RNAV (GPS) Rwy 12³

RNAV (GPS) Rwy 26³

VOR Rwy 8⁴

VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI **RNAV (GPS) Rwy 7**

VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD **VOR/DME-B¹**

VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D, 2200-3.

MCMINNVILLE, OR

MCMINNVILLE MUNI **ILS or LOC Rwy 22**

RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-

MEDFORD **ILS or LOC/DME Rwy 14¹²**

LOC/DME BC-B²³

RNAV (GPS)-D³

RNAV (GPS) Rwy 14⁴

VOR-A⁵

VOR/DME-C³

VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL **ILS Rwy 11¹**

RNAV (GPS) Y Rwy 11²³

RNAV (RNP) Z Rwy 11², 800-2½

VOR/DME or GPS-A, 2000-3

VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... **ILS or LOC Rwy 32R¹**

NDB Rwy 32R²

RNAV (GPS) Rwy 4¹

RNAV (GPS) Rwy 14L¹

RNAV (GPS) Rwy 22¹

VOR Rwy 4²

VOR -1 Rwy 14L²

VOR -3 Rwy 14L²

VOR Rwy 22²

VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD **VOR or GPS Rwy 31**

NA except for operators with approved weather reporting service.

Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON

RGNL **ILS or LOC Rwy 4¹**

NDB or GPS Rwy 4²

VOR or GPS-A³

VOR/DME or GPS-B⁴

VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½, Category D, 1000-3. LOC, Category C, 900-2½, Category D, 1000-3.

²Category C, 900-2½; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG **RNAV (GPS) Rwy 7**

NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL **ILS or LOC Rwy 17¹²**

RNAV (GPS) Rwy 17²

RNAV (GPS) Rwy 35²

VOR-A²³

VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,

700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A
 NA when local weather not available.
 Category C, 800-2¼; Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²

¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD NDB or GPS-A¹
 VOR or GPS Rwy 22,1000-3²

¹Category D, 1000-3.

²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16¹
RNAV (GPS) Z Rwy 16²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

²Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON

COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER

COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

McNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL

AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY

INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN

COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.

Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2½.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

⁴Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD

RADAR - 124.55 263.075 ▽ ▲ NA

	RWY	GS/TCH/RP	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (09155 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4 ▽ ▲ NA

	RWY	GS/TCH/RP	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/947	ABCD	499/40	200	(200-¾)
	33 ²	3.0°/39/730	ABCD	500-¾	200	(200-¾)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:


Rwy 15: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 700, then climbing left turn to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS

KLAMATH FALLS (KLMT), (KINGSLEY FIELD), OR (09071 USAF)

RADAR - (E) ¹Call Kingsley GCA 123.675 233.7 119.175x 317.7x 225.4x 256.7x  ELEV 4095

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ²	32 ³ 14 ⁴	3.0°/48/909 3.0°/47/905	ABCDE ABCDE	4345/24 4391-¾	250 300	(300-½) (300-¾)
ASR	32 ⁵		AB C D E	4720/24 4720/60 4720-1½ 4720-1¾	625 625 625 625	(700-½) (700-1¼) (700-1½) (700-1¾)
	14 ⁶		AB C D E	4800-¾ 4800-1¾ 4800-2 4800-2½	709 709 709 709	(800-¾) (800-1¾) (800-2) (800-2½)
CIR ⁷	All Rwy		A B C D E	4820-1 5020-1¼ 5020-2¾ 5020-3 5620-3	725 925 925 925 1525	(800-1) (1000-1¼) (1000-2¾) (1000-3) (1600-3)



¹MILITARY USE ONLY. Opr 1600-0000Z++ Mon-Fri. ²No-NOTAM preventive maint sked; 1600-1700Z++ Thu. ³When ALS inop, increase CAT AB RVR to 40, vis to ¾ mile, CAT CDE RVR to 50, vis to 1 mile. ⁴When ALS inop, increase vis to 1 mile. ⁵When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to 1¾ miles, CAT D vis to 2 miles, CAT E vis to 2½ miles. ⁶When ALS inop, increase CAT AB vis to 1 mile, CAT C to 2 miles, CAT D to 2½ miles, CAT E to 2½ miles. ⁷CAT E circling NA from Rwy 14 clockwise to Rwy 32. Circling to Rwy 7/25 Not Authorized at night all CATs.

OAK HARBOR (OKH), WA

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193

A J EISENBERG

RADAR - 118.2 285.65   NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.



ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:
Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.
DEPARTURE PROCEDURE: Northbound aircraft:
Rwy 13, turn left. **Rwy 31**, climb straight ahead.
All aircraft proceed via SHR R-139 to SHR VORTAC. Southbound aircraft: **Rwy 13**, climb straight ahead. **Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure end of runway at or above 35' AGL.
DEPARTURE PROCEDURE: **All runways**, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.
NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.
DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.
All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CW R-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.
NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CWR-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****ORIG 09295 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

* Or standard with minimum climb of 430/NM to 500.

** Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3, 7**, turn left;

Rwys 21, 25, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.



HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL

DEPARTURE PROCEDURE: **All aircraft** departing
IDA

R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.

NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL.

Rwy 17, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

**JEROME, ID**

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



LAUREL, MT**LAUREL MUNI**TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.DEPARTURE PROCEDURE: **Rwy 22**, turn left.**All aircraft** climb direct BIL VORTAC.**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left

direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.**Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.NOTES: **Rwy 8**, trees 1.42 NM from departure end of

runway, 2386' left of centerline, 100' AGL/2159' MSL.

Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.**Rwy 15**, use EYSE RNAV DEPARTURE.**LIVINGSTON, MT****MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.**MADRAS, OR****MADRAS MUNI (S33)****ORIG-A 09043 (FAA)**TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or **Rwy 22**, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or . . .
. . . for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.**MC CALL, ID****MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.**MC CHORD AFB (KTCM)****TACOMA, WA 09127**DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. **All aircraft** climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1. DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL.

Rwy 29, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 6 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. w/ min. climb of 270' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 7500 via heading 240 and PIH R-269 to SICOY/PIH 10 DME. **Rwys 17, 21**, climbing right turn to 7500 via PIH R-269 to SICOY/PIH 10 DME. **Rwy 35**, climbing left turn to 7500 via heading 230 and PIH R-269 to SICOY/PIH 10 DME.

DME REQUIRED.

NOTE: **Rwy 3**, trees beginning 3132' from departure end of runway, 562' left of centerline, up to 100' AGL/4549' MSL. Rod on obstruction light 978' from departure end of runway, 759' right of centerline, 37' AGL/4486' MSL.

Rwy 17, transmission tower 1.19 NM from departure end of runway, 2395' left of centerline, 124' AGL/4693' MSL. Trees beginning 1.63 NM from departure end of runway, 2642' left of centerline, up to 100' AGL/4759' MSL. Fence 112' from departure end of runway, 416' right of centerline, 4' AGL/ 4453' MSL. Bush 30' from departure end of runway, 261' right of centerline, 6' AGL/4445' MSL. Fence 208' from departure end of runway, 421' right of centerline, 10' AGL/4449' MSL. **Rwy 21**, antenna 543' from departure end of runway, 309' left of centerline, 17' AGL/4466' MSL. Obstruction light 543' from departure end of runway, 286' left of centerline, 13' AGL/ 4462' MSL. **Rwy 35**, electrical equipment 197' from departure end of runway, 248' left of centerline, 10' AGL/ 4454' MSL.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179' MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND, OR (CON'T)

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.



PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 3,300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28, NA**.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKWR-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 6 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 400' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, Climb heading 154° to 700, then climbing right turn direct SEA VORTAC, then..., or for climb in visual conditions: cross Renton Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, then...,

Rwy 34, Climb heading 334° to 700, then climbing left turn direct SEA VORTAC then..., ...Climb in SEA VORTAC holding pattern (E, LT, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, Trees, towers, lights and blast shield beginning 286' from departure end of runway, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from departure end of runway, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from departure end of runway, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from departure end of runway, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence...

...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMD T 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions.

Rwy 23, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7,20,25,34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ... for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25,30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25,30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to ZEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

LOC I-AWO	APP CRS	Rwy Idg	5332
111.5	339°	TDZE	131
		Apt Elev	137

LOC RWY 34

ARLINGTON MUNI (AWO)

▼ Inoperative table does not apply to Cat C.
▲ NA Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MAIS

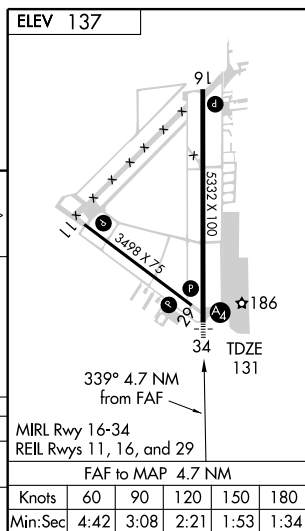
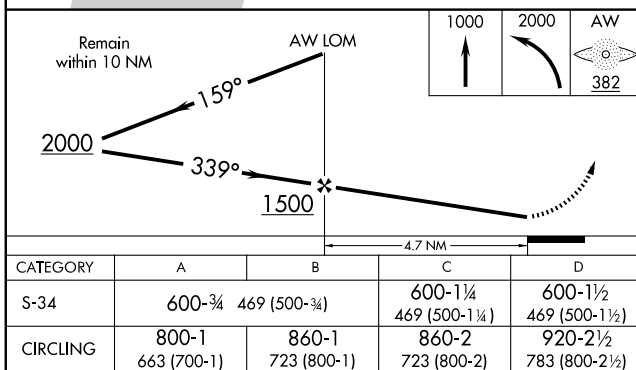
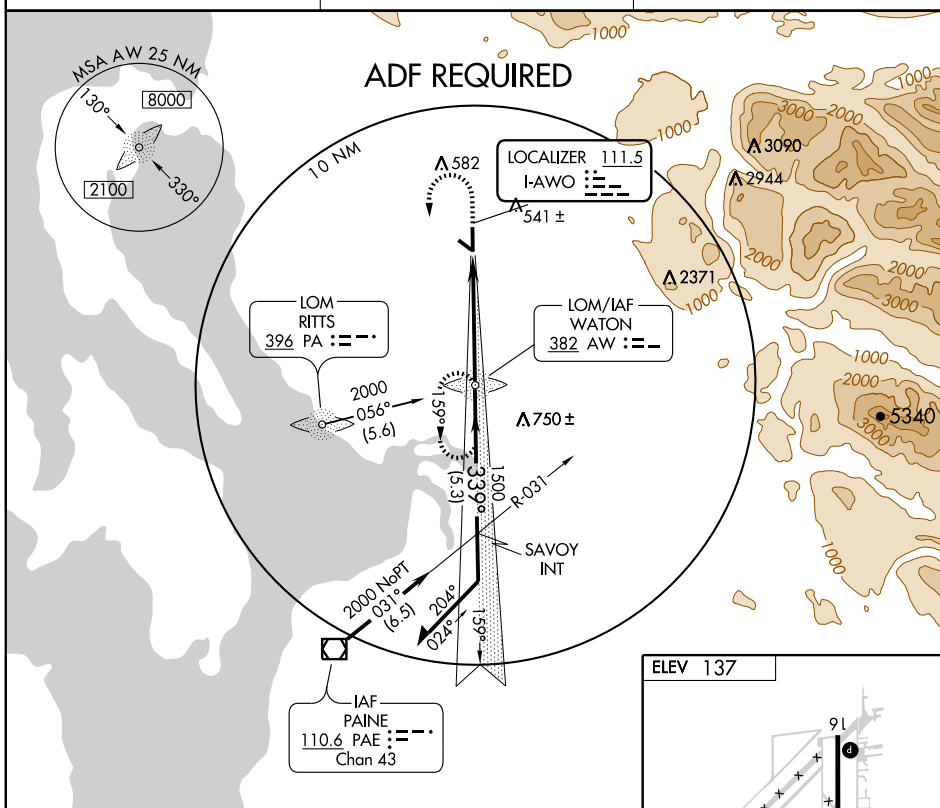


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3
135.625

SEATTLE CENTER
128.5 306.9

UNICOM
122.7 (CTAF) 0



NDB or GPS RWY 34

ARLINGTON MUNI (AWO)

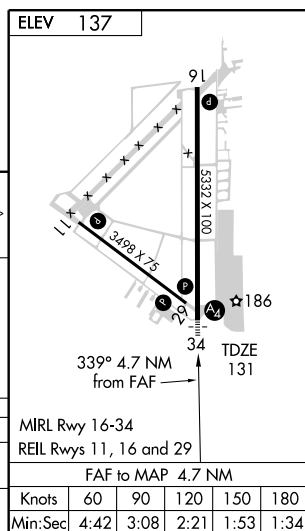
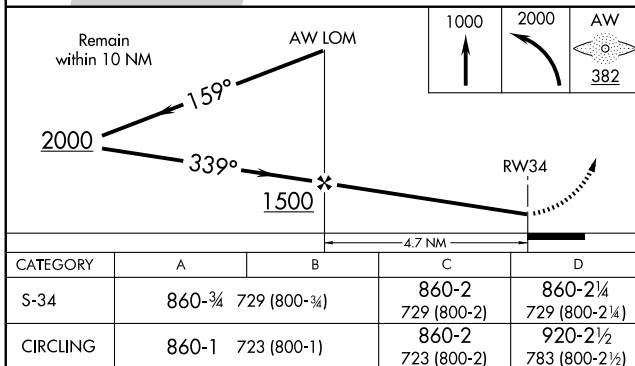
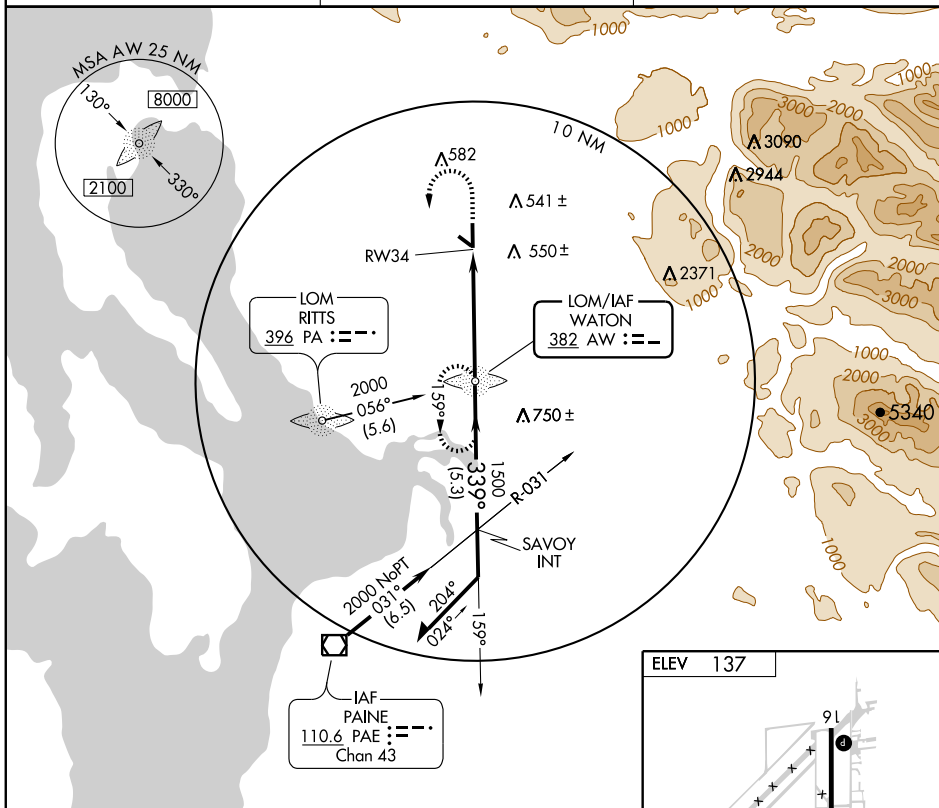
LOM AW	APP CRS	Rwy Idg	5332
382	339°	TDZE	131
		Apt Elev	137

T Inoperative table does not apply to Cat C.
A Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MALS


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 122.7 (CTAF) 0
--------------------------	--------------------------------------	---------------------------------



MIRL Rwy 16-34

REIL Rwy 11, 16 and 29

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

SEATTLE CLNC DEL
128.0
SEATTLE DEP CON
123.85

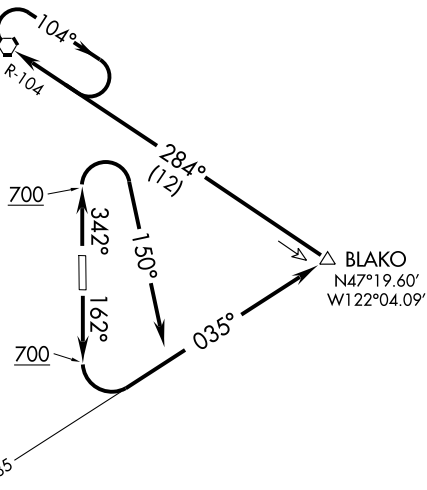
TAKE-OFF MINIMUMS

RWY 16: Standard with minimum climb of 266' per NM to 1200 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

RWY 34: Standard with minimum climb of 300' per NM to 900 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

SEATTLE
116.8 SEA
Chan 115
N47°26.12' W122°18.58'
L-1, H-1

McCHORD
109.6 TCM
Chan 33

TAKE-OFF OBSTACLE NOTES:

RWY 16: AAO 3.2 NM from DER, 3643' left of centerline 200' AGL/724' MSL.

RWY 34: AAO 3.2 NM from DER, 5520' right of centerline 200' AGL/639' MSL. Powerline 1804' from DER, on centerline, 80' AGL/122' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 162° to 700, then climbing left turn to 3000 via the TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

TAKE-OFF RUNWAY 34: Climb heading 342° to 700, then climbing right turn to 3000 via heading 150° to TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

....hold E SEA VORTAC, RT, 284° inbound; when authorized by ATC, climb-in-hold to 5000, or as assigned before proceeding on course.

APP CRS 331°	Rwy Idg TDZE Apt Elev	N/A N/A 63
------------------------	-----------------------------	---------------------------------------

RNAV (GPS)-A
AUBURN MUNI (S50)

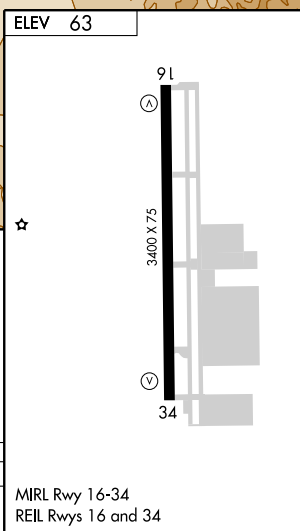
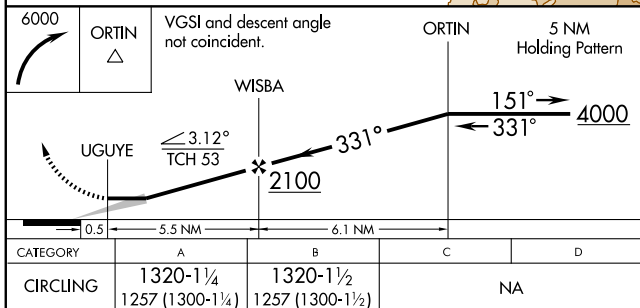
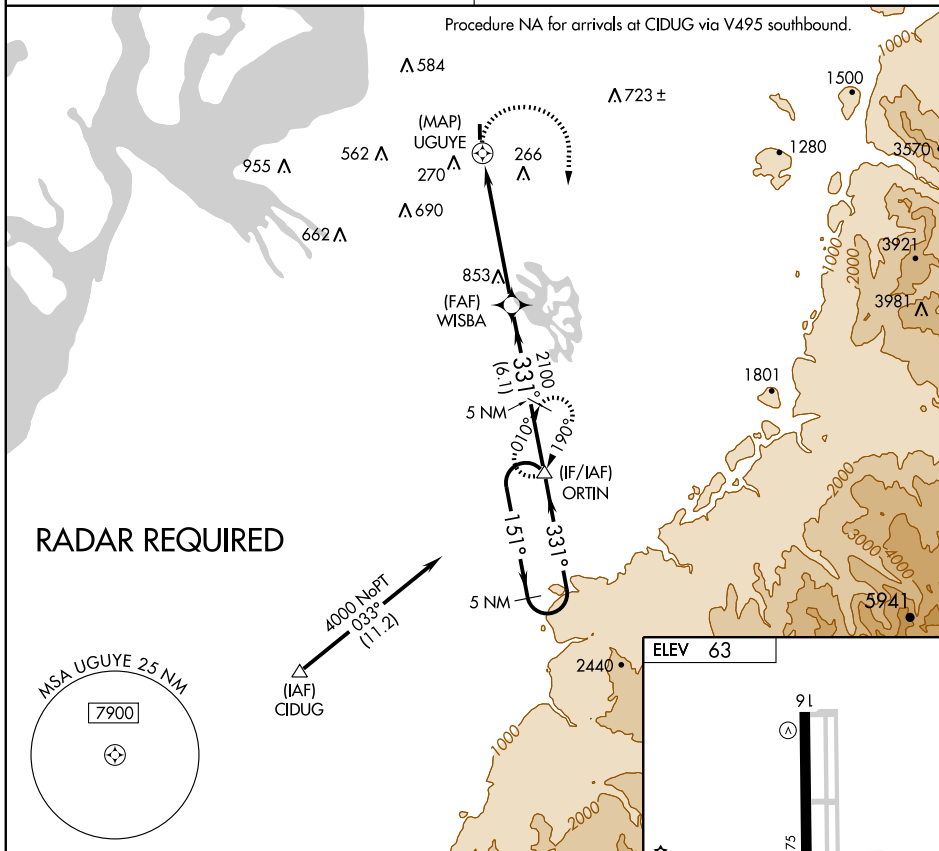
T	Circling NA west of Rwy 16-34.
A NA	Procedure NA at night. DME/DME RNP-0.3 NA. Use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 6000 direct
ORTIN and hold, continue climb-in-hold to 6000.

SEATTLE APP CON
123.85

UNICOM
122.8 (CTAF)

Procedure NA for arrivals at CIDUG via V495 southbound.



AIRPORT DIAGRAM

AL-45 (FAA)

BELLINGHAM INTL (BLI)
BELLINGHAM, WASHINGTON

ATIS
134.45
BELLINGHAM TOWER ★
124.9 379.3
GND CON
127.4 379.3

ILS
CRITICAL
AREA

ELEV
163

91

162.5

48°48'N

RWY 16-34
S75, D160, ST175, DT250

HOT
CARGO

COMMERCIAL
AIRCRAFT
PARKING

TERMINAL

US
CUSTOMS

FIRE
STATION

CONTROL
TOWER
247

FBO

TRANSIENT
PARKING

GENERAL
AVIATION
HANGARS

GENERAL
AVIATION
PARKING

HANGAR

ILS
CRITICAL
AREA

FIELD
ELEV
170

342.5

34

NOTE: THIS AREA NOT VISIBLE
FROM TOWER

48°47'N

122°32.5'W

122°32'W

122°31.5'W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1: 22 OCT 2009 to 19 NOV 2009

▼

For inoperative MALS, increase S-LOC 16 Cat D visibility to RVR 5000.

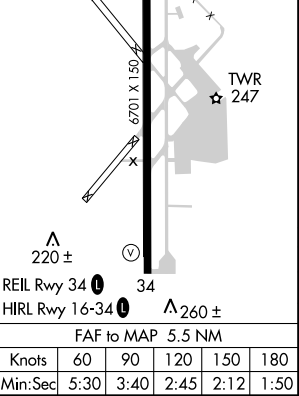
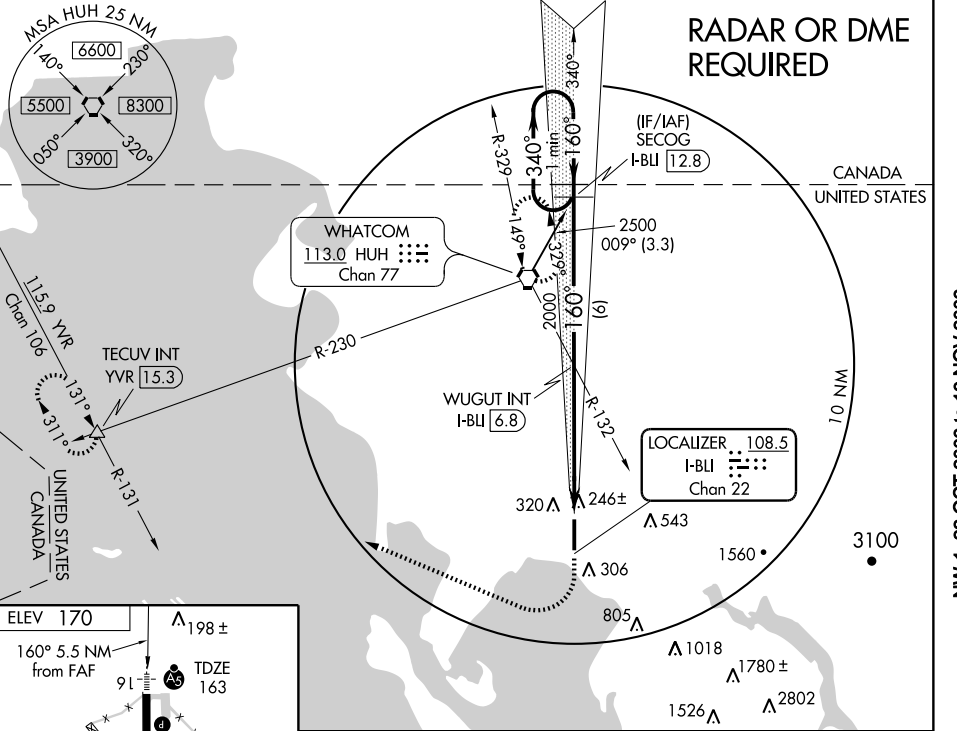
▲

If local altimeter not received, use Friday Harbor altimeter setting and increase DA to 430 and increase all MDAs 80 feet.
VDP NA when using Friday Harbor altimeter setting.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

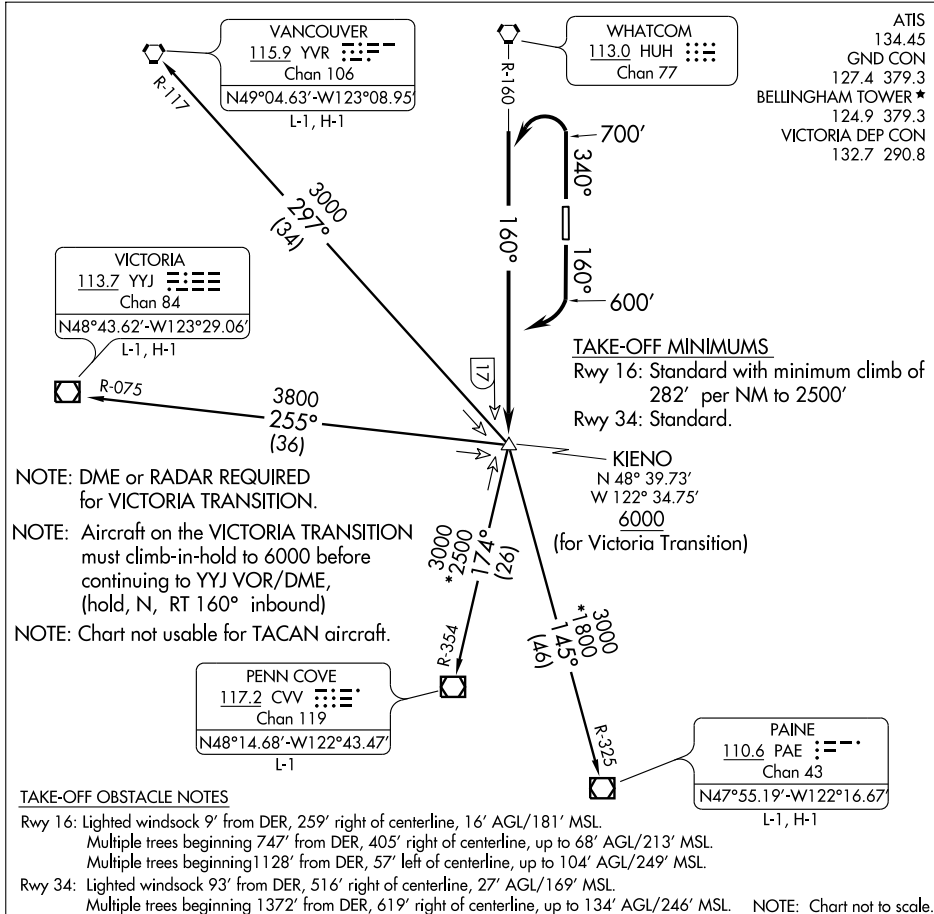
MALS

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 via heading 271° and YVR VORTAC R-131 to TECUV INT/YVR 15.3 DME and hold.

ATIS 134.45	VICTORIA TERMINAL APP CON 132.7 290.8	BELLINGHAM TOWER ★ 124.9 (CTAF) 0 379.3	GND CON 127.4 379.3	UNICOM 122.95
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One Minute Holding Pattern		SECOG I-BLI 12.8	WUGUT INT I-BLI 6.8	700 ↑	2000 ↷ 271°	YVR R-131 115.9	TECUV △
2000 ← 340° 160° →			2000 ↘ 2000	I-BLI 2.1 I-BLI 1.2			
GS 3.00° TCH 50		6 NM		4.6 NM		0.9	
CATEGORY	A	B	C	D			
S-ILS 16	* 363/24 200 (200-½)						
S-LOC 16	500/24 337 (400-½)					500/40 337 (400-¾)	
CIRCLING	620-1 450 (500-1)			620-1½ 450 (500-1½)		720-2 550 (600-2)	



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 160° to 600', then climbing right turn to intercept HUH R-160 to KIENO INT, Thence....

TAKE-OFF RUNWAY 34: Climb heading 340° to 700', then climbing left turn to intercept HUH R-160 to KIENO INT. Thence....

....Maintain 3000 via assigned transition, expect requested altitude within 10 minutes.

PAINE TRANSITION (KIENO2.PAE): From over KIENO INT via PAE R-325 to PAE VOR/DME.

PENN COVE TRANSITION (KIENO2.CVV): From over KIENO INT via CVV R-354 to CVV VOR/DME.

VANCOUVER TRANSITION (KIENO2.YVR): From over KIENO INT via YVR R-117 to YVR VORTAC.

VICTORIA TRANSITION (KIENO2.YYJ): From over KIENO INT via YYJ R-075 to YYJ VOR/DME.

WAAS CH 45999 W16A	APP CRS 160°	Rwy Idg 6701 TDZE 163 Apt Elev 170
--	------------------------	---

RNAV (GPS) RWY 16

BELLINGHAM INTL (BLI)

▼ For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.
Increase LNAV Cat D visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.

▲ Baro-VNAV and VDP NA when using Friday Harbor altimeter setting.
If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA's 80 feet.

MALSR

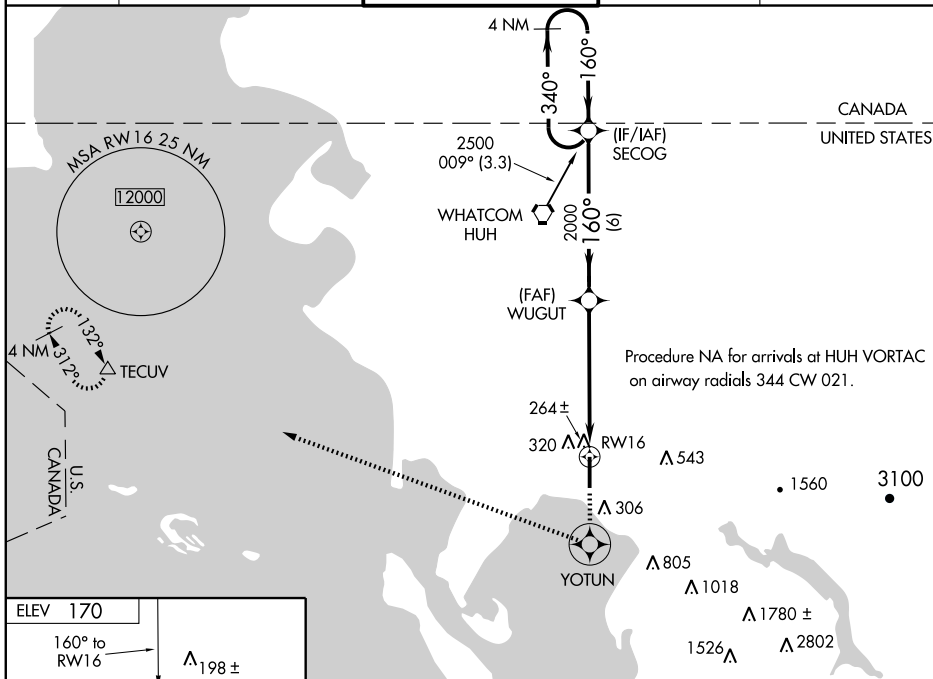


MISSED APPROACH: Climb to 2000 direct YOTUN and right turn via 266° track to TECUV and hold.

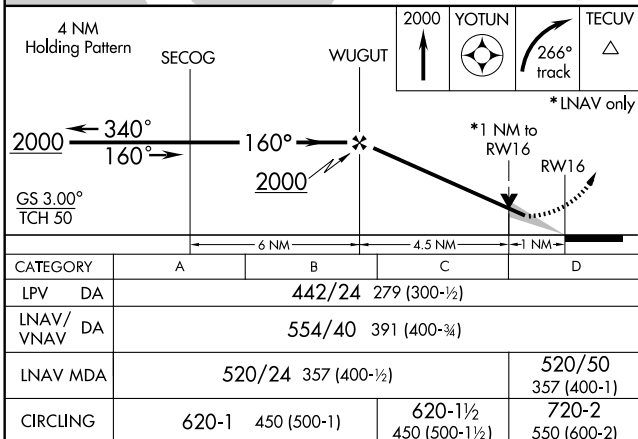
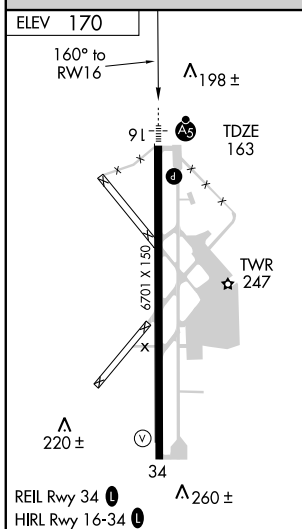
ATIS	VICTORIA TERMINAL APP CON
134.45	132.7 290.8

BELLINGHAM TOWER ★
124.9 (CTAF) 379.3

GND CON
127.4 379.3

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009



WAAS	APP CRS	Rwy Idg	6701
CH 86223	340°	TDZE	170
W34A		Apt Elev	170

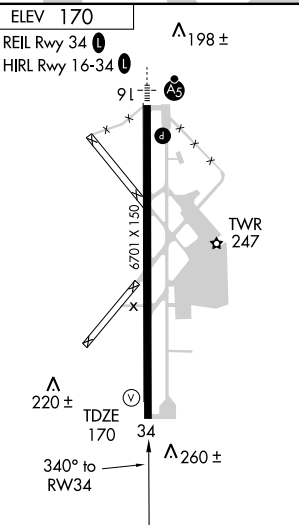
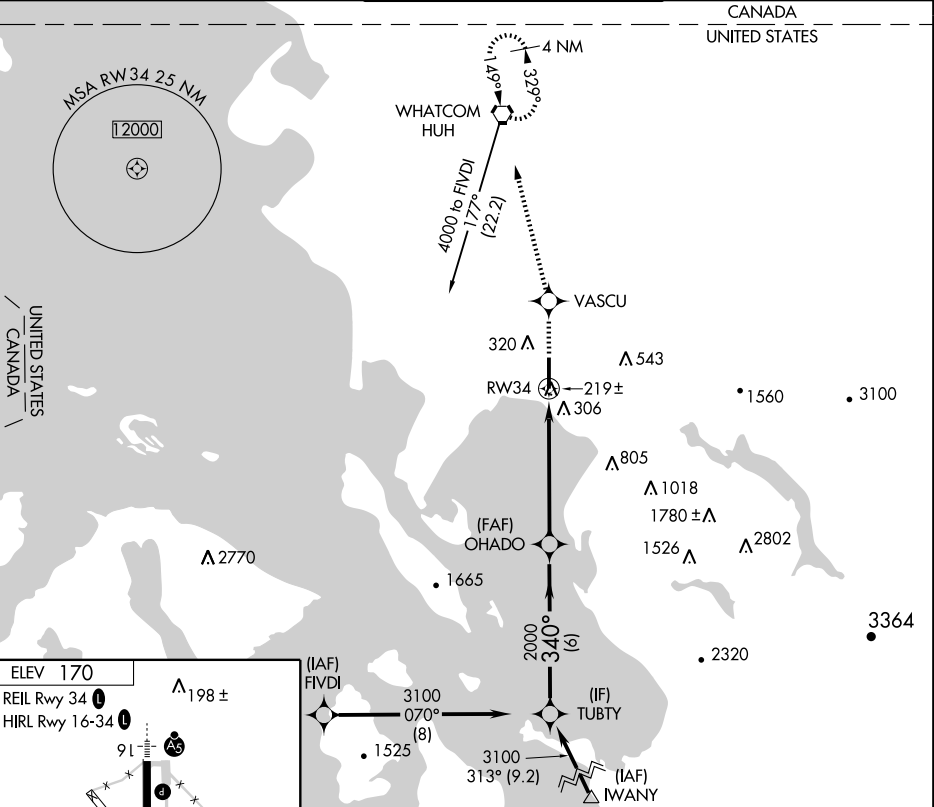
RNAV (GPS) RWY 34

BELLINGHAM INTL (BLI)

⚠ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA
below -15°C (5°F) or above 48°C (118°F).

MISSED APPROACH: Climb to 3000 direct VASCU
and via 326° track to HUH VORTAC and hold,
continue climb-in-hold to 3000.

ATIS 134.45	VICTORIA TERMINAL APP CON 132.7 290.8	BELLINGHAM TOWER★ 124.9 (CTAF) 0 379.3	GND CON 127.4 379.3	UNICOM 122.95
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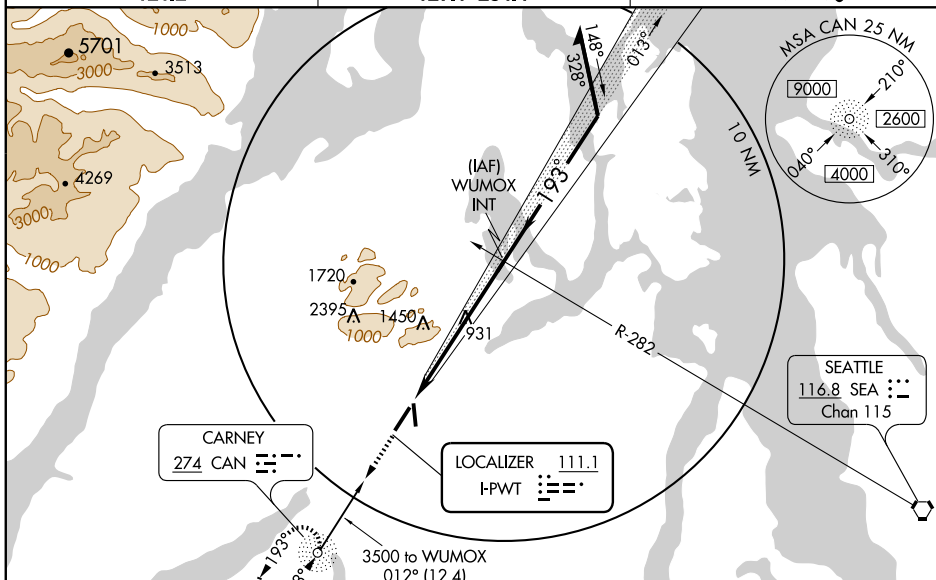
TUBTY				3000 ↑		VASCU ✦		trk 326° ↻		HUH ◡	
3100		Procedure Turn NA		OHADO							
GS 3.00° TCH 50		340°		✖		2000		RW34			
		6 NM		5.5 NM							
CATEGORY		A		B		C		D			
LPV DA				439-1		269 (300-1)					
LNAV/ VNAV DA				592-1½		422 (500-1½)					
LNAV MDA		560-1		390 (400-1)				560-1¼ 390 (400-1¼)			
CIRCLING		620-1		450 (500-1)		620-1½ 450 (500-1½)		720-2 550 (600-2)			

ILS or LOC RWY 19
BREMERTON NATIONAL (PWT)

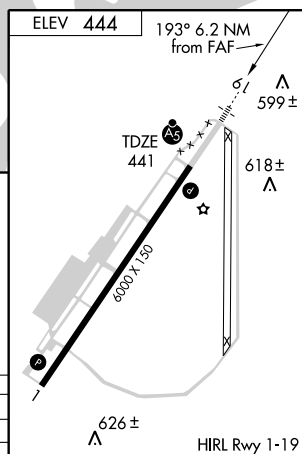
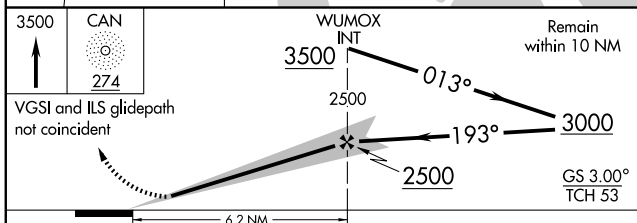
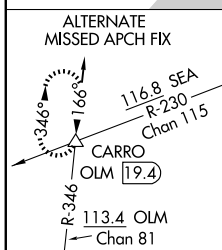
MALSR
A5

MISSED APPROACH: Climb to 3500 direct CAN NDB and hold, continue climb-in-hold to 3500.

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) **L**

ADF REQUIRED

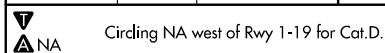


CATEGORY	A	B	C	D
S-ILS 19	645-1/2 204 (300-1/2)			
S-LOC 19	1200-1/2 759 (800-1/2)	1200-3/4 759 (800-3/4)	1200-13/4 759 (800-13/4)	1200-2 759 (800-2)
CIRCLING	1200-1 756 (800-1)	1200-11/4 756 (800-11/4)	1200-2 1/4 756 (800-2 1/4)	1200-2 1/2 756 (800-2 1/2)

FAF to MAP 6.2 NM					
Knots	60	90	120	150	180
Min:Sec	6:12	4:08	3:06	2:29	2:04

AL-5107 (FAA)

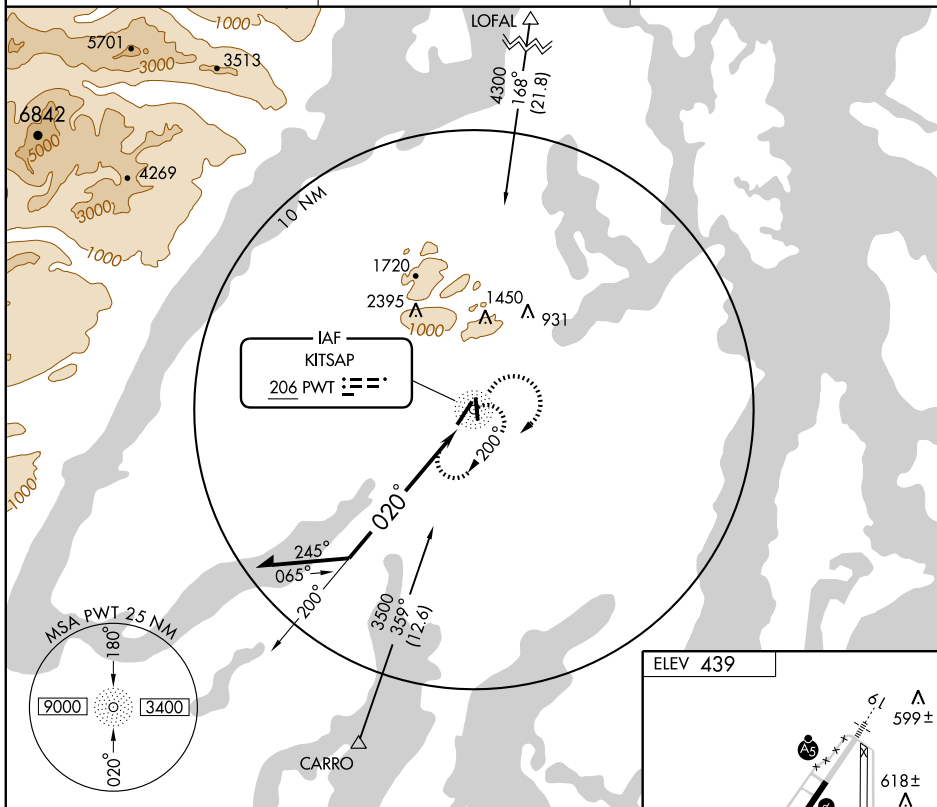
NDB RWY 1
BREMERTON NATIONAL (PWT)



MISSED APPROACH: Climbing right turn to 3500 via 200° bearing from PWT NDB, then direct PWT NDB and hold.

AWOS-3
121.2

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) **L**

Remain
within 10 NM

Remain within 10 NM

2000

200°

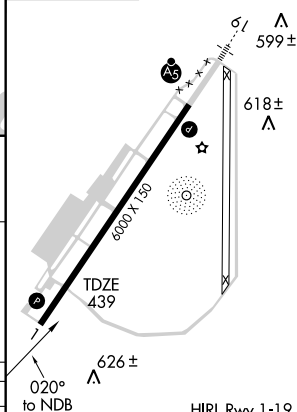
020°

NDB

3500*

* Maintain 3500 or above until established outbound for Procedure Turn.

ELEV 439



CATEGORY	A	B	C	D
S-1	980-1	541 (600-1)	980-1½ 541 (600-1½)	980-1¾ 541 (600-1¾)
CIRCLING	980-1	541 (600-1)	980-1½ 541 (600-1½)	1000-2 561 (600-2)

Knots	60	90	120	150	180
Min:Sec					

NW-1. 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	6000
013°	TDZE	444
	Apt Elev	444

RNAV (GPS) RWY 1
BREMERTON NATIONAL (PWT)

⚠

Circling NA for Cat. D west of Rwy 1-19.

⚠

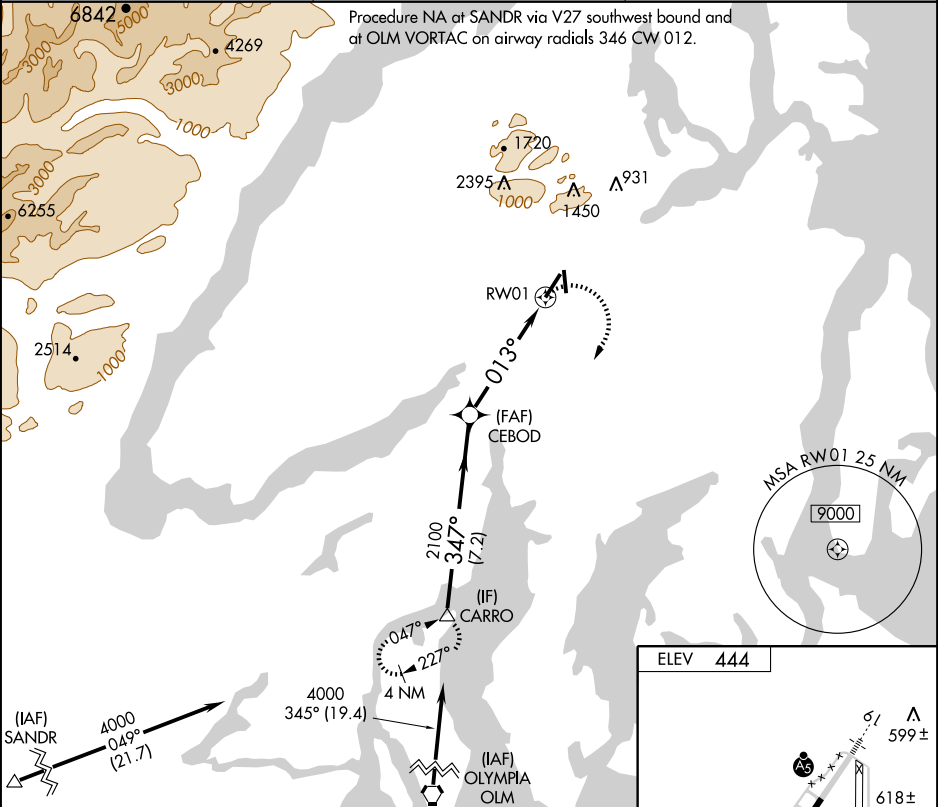
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

⚠

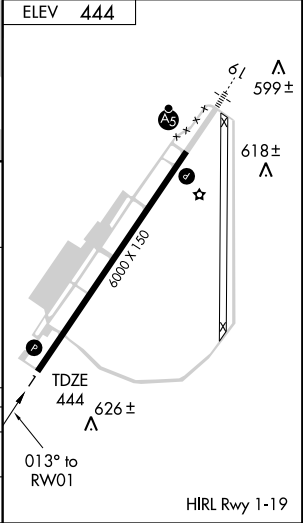
When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climbing right turn to 4000 direct CARRO and hold, continue climb-in-hold to 4000.

AWOS-3 121.2	SEATTLE APP CON 127.1 254.4	UNICOM 123.05 (CTAF) 0
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Procedure Turn NA	CARRO		CEBOD		RW01	
	4000		2100		3.04° TCH 45	
	347°		013°		5 NM	
	7.2 NM					
CATEGORY	A		B		C	
LNAV MDA	880-1		436 (500-1)		880-1½ 436 (500-1½)	
CIRCLING	940-1		496 (500-1)		1000-2 556 (600-2)	



WAAS CH 61106 W19A	APP CRS 193°	Rwy Idg TDZE Apt Elev	6000 441 444
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RNAV (GPS) RWY 19

BREMERTON NATIONAL (PWT)

⚠ Circling NA for Cat. D west of Rwy 1-19. DME/DME RNP-0.3 NA.
⚠ When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase DA to 808 feet and all MDAs 60 feet, increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B. VDP NA when using Seattle-Tacoma Intl altimeter setting. For inoperative MALSR increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B.

MALSR



MISSED APPROACH: Climb to 4000 direct CEBOD and via 167° track to CARRO and hold, continue climb-in-hold to 4000.

AWOS-3
121.2

SEATTLE APP CON
127.1 254.4

UNICOM
123.05 (CTAF) 0

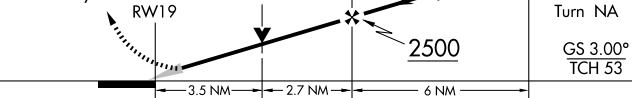


MISSED APCH FIX

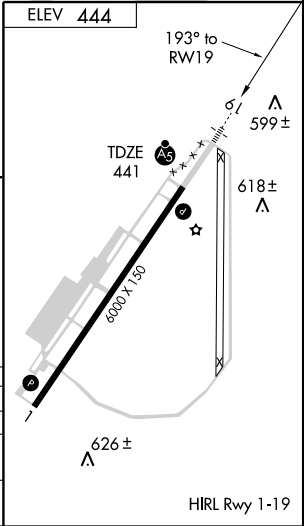


4000	CEBOD	167° track	CARRO	VGSI and RNAV glidepath not coincident	GITRE
				WUMOX	

* LNAV only



CATEGORY	A	B	C	D
LPV DA	763-1/2 322 (400-1/2)			
LNAV MDA	1600-1/4 1159 (1200-1/4)	1600-1/2 1159 (1200-1/2)	1600-2 1/2 1159 (1200-2 1/2)	
CIRCLING	1600-1/4 1156 (1200-1/4)	1600-1/2 1156 (1200-1/2)	1600-3 1156 (1200-3)	



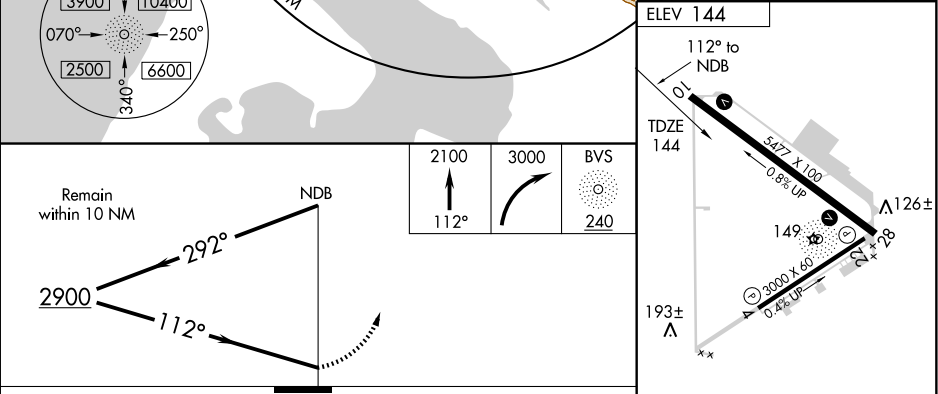
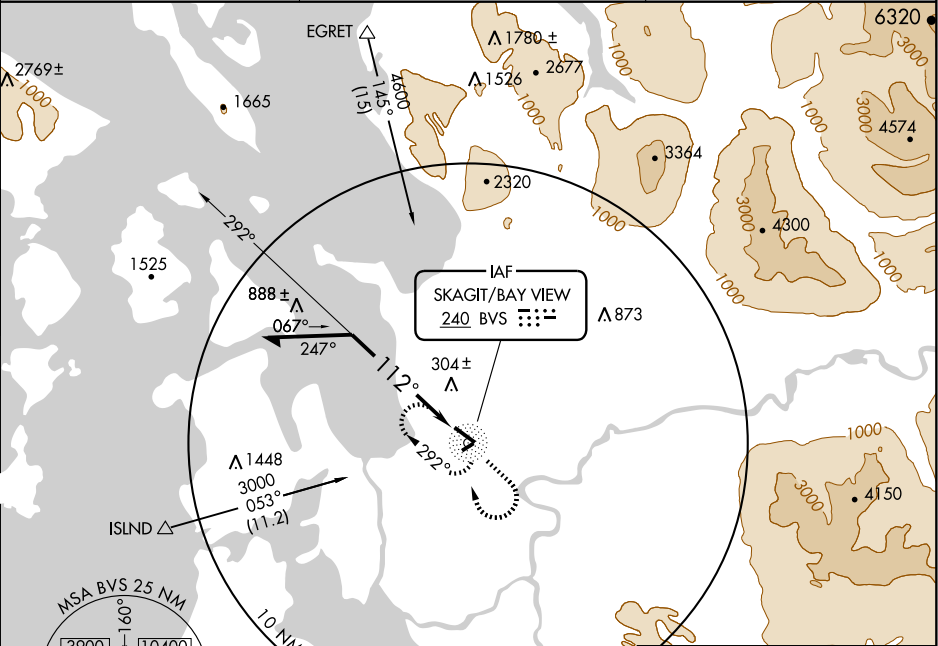
▼

▲

Visibility reduction by helicopters NA.
When local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 2100 via 112° bearing from BVS NDB then climbing right turn to 3000 direct BVS NDB and hold.

AWOS-3 121.125	WHIDBEY APP CON ★ 120.7 270.8	UNICOM 123.075 (CTAF) 0
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CATEGORY	A	B	C	D
S-10	1400-1¼ 1256 (1300-1¼)	1400-1½ 1256 (1300-1½)	1400-3	1256 (1300-3)
CIRCLING	1400-1¼ 1256 (1300-1¼)	1400-1½ 1256 (1300-1½)	1400-3	1256 (1300-3)

LIRL Rwy 4-22 0

REIL Rws 10 and 28 0

MIRL Rwy 10-28 0

WAAS CH 53500 W10A	APP CRS 105°	Rwy Idg TDZE Apt Elev	5477 144 144
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RNAV (GPS) RWY 10

BURLINGTON/MOUNT VERNON/SKAGIT RGNL (BVS)

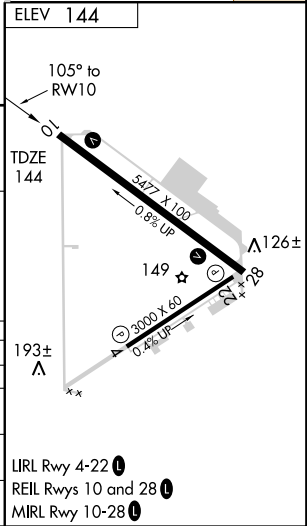
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cats, LNAV Cats C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 5000 direct HOSVA and via 196° track to KIKYE and via 278° track to ISLND and hold, continue climb-in-hold to 5000.

AWOS-3 121.125	WHIDBEY APP CON ★ 120.7 270.8	UNICOM 123.075 (CTAF) 0
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5 NM Holding Pattern		SOCLO	5000	HOSVA	196° track	KIKYE	278° track	ISLND
3900		285°	105°	3100	2200	105°	RW10	
GS 3.00° TCH 40		2.8 NM	3.9 NM	6.2 NM				
CATEGORY	A	B	C	D				
LPV DA		497-1¼	353 (400-1¼)					
LNAV/VNAV DA		640-1¾	496 (500-1¾)					
LNAV MDA	620-1	476 (500-1)	620-1¼ 476 (500-1¼)	620-1½ 476 (500-1½)				
CIRCLING	660-1	516 (600-1)	660-1½ 516 (600-1½)	700-2 556 (600-2)				



WAAS	APP CRS	Rwy Idg	5477
CH 70407	286°	TDZE	126
W28A		Apt Elev	144

RNAV (GPS) RWY 28

BURLINGTON/MOUNT VERNON/SKAGIT RGNL (BVS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cats, LNAV Cats C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 4000 direct SOCLO and hold, continue climb-in-hold to 4000.

AWOS-3
121.125

WHIDBEY APP CON *
120.7 270.8

UNICOM
123.075 (CTAF) 0

MISSED APCH FIX



Λ 873

Λ 304±

RW28

CEXBI
4.2 NM to
RW28

TOKSE
7.1 NM to
RW28

(FAF)
OPIXE

HEROT

3100
286° (T.9)

3600
286° (4.2)

286°

FOBBO

4600
286° (2.4)

5000
360° (24.2)

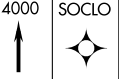
PAINE
PAE

MSA RW 28 25 NM

10600

ELEV 144

Procedure NA for arrivals at PAE VOR/DME via V23 southeast bound.



VGSI and RNAV glidepath not coincident

FOBBO

*LNAV only

*1.2 NM to
RW28

CEXBI
4.2 NM to
RW28

TOKSE
7.1 NM to
RW28

OPIXE

HEROT

4600

Procedure
Turn
NA
GS 3.00°
TCH 46

1480*

2440*

3100

3600

CATEGORY

A

B

C

D

LPV DA

421-1¼ 295 (300-1¼)

LNAV/ VNAV DA

503-1½ 377 (400-1½)

LNAV MDA

600-1 474 (500-1)

600-1¼

474 (500-1¼)

600-1½

474 (500-1½)

CIRCLING

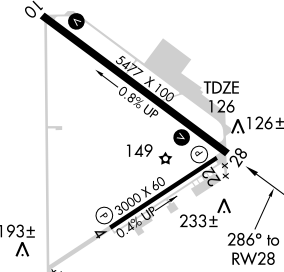
660-1 516 (600-1)

660-1½

516 (600-1½)

700-2

556 (600-2)



LIRL Rwy 4-22 0

REIL Rwy 10 and 28 0

MIRL Rwy 10-28 0

APP CRS	Rwy Idg	5000
160°	TDZE	173
	Apt Elev	174

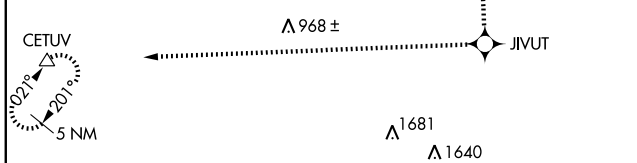
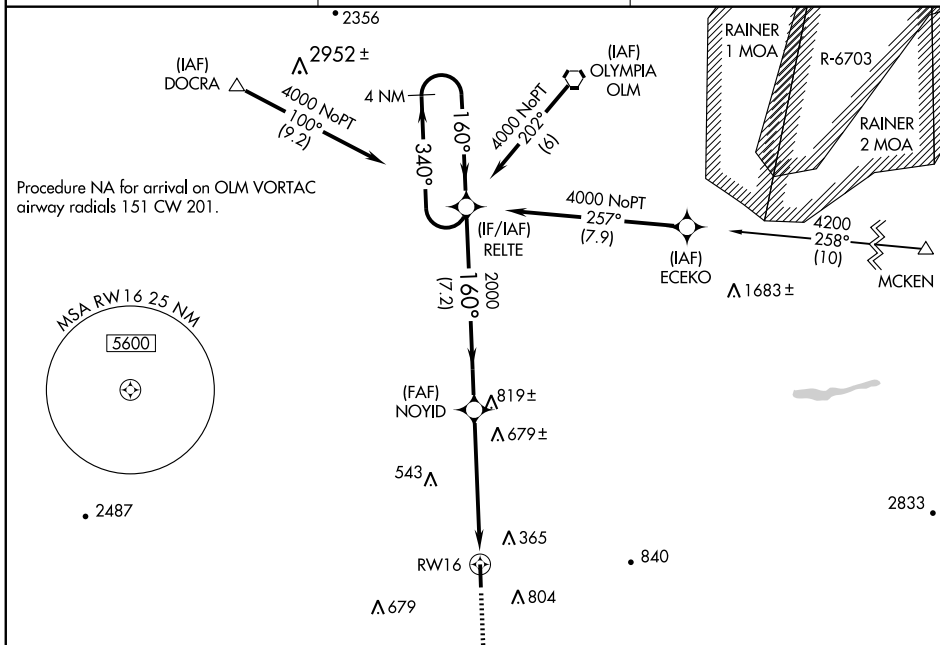
RNAV (GPS) RWY 16

CHEHALIS-CENTRALIA (CLS)

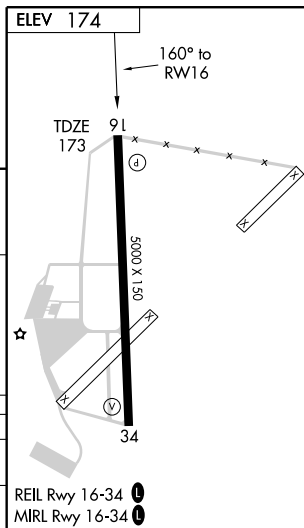
- DME/DME RNP-0.3 NA.
 Circling NA northeast of Rwy 16-34.
 Circling NA at night.

MISSED APPROACH: Climb to 5000 direct JIVUT and right turn via 250° track to CETUV and hold, continue climb-in-hold to 5000.

AWOS-3 118.025	SEATTLE APP CON 121.1 391.9	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	980-1 807 (900-1)	980-1½ 807 (900-1½)	980-2½ 807 (900-2½)	980-2½ 807 (900-2½)
CIRCLING	980-1 806 (900-1)	980-1½ 806 (900-1½)	1080-2¾ 906 (1000-2¾)	1140-3 966 (1000-3)



NDB DPY
216

APP CRS
323°

Rwy Idg	TDZE	Apt Elev
18L	100	100
18R	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
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87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

N/A
N/A
2211

NDB-A
DEER PARK (DEW)

T Circling NA west of Rwy 16-34.

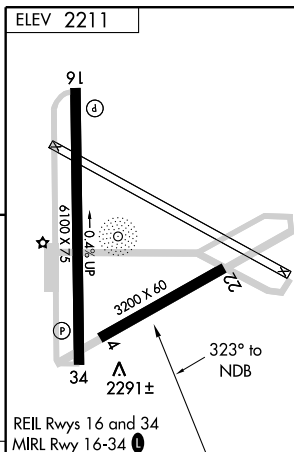
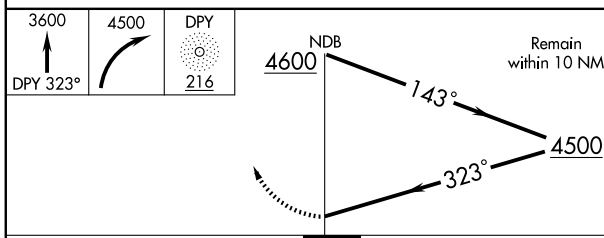
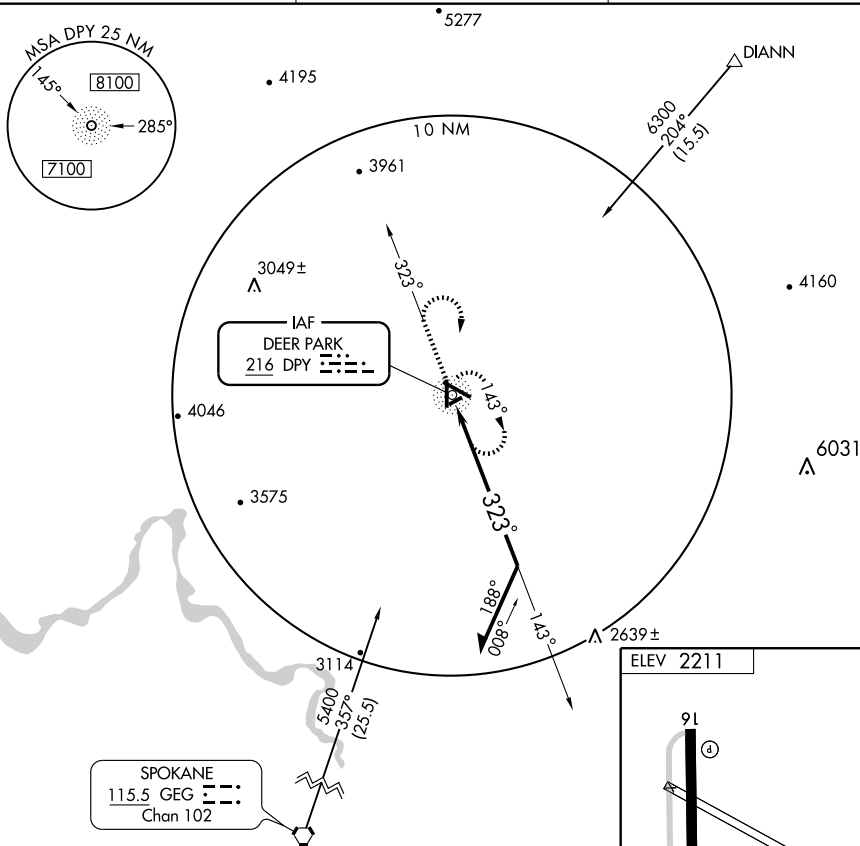
ANA When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDAs 80 feet and all visibilities ¼ mile.

MISSED APPROACH: Climb to 3600 via 323° bearing from DPY NDB then climbing right turn to 4500 direct DPY NDB and hold.

ASOS
135.175

SPOKANE APP CON
123.75 282.25

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D						
CIRCLING	3000-1 789 (800-1)	3000-1¼ 789 (800-1¼)	3000-2¼ 789 (800-2¼)	3000-2½ 789 (800-2½)	Knots	60	90	120	150	180
					Min:Sec					

⚠

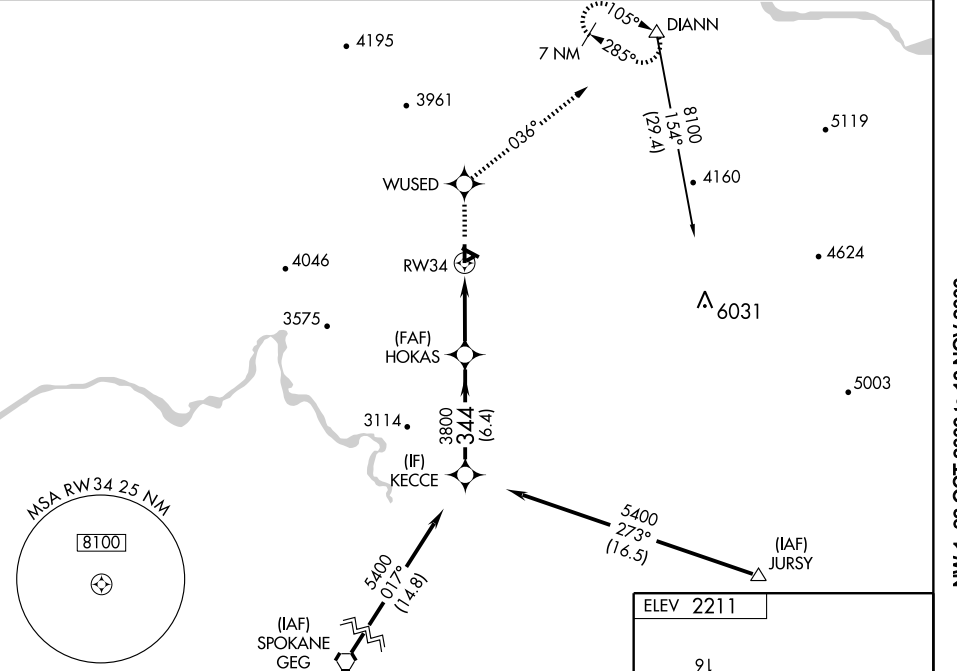
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).

⚠

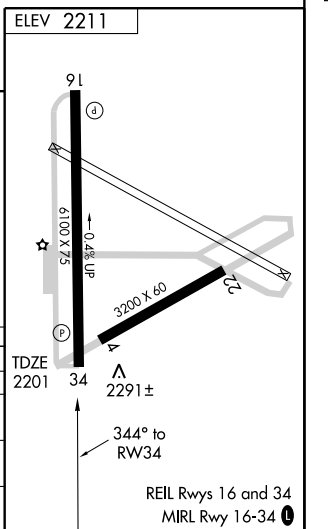
When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDAs 80 feet and all visibilities ¼ mile. Circling not authorized west of Rwy 16-34. DME/DME RNP- 0.3 NA. VDP and Baro-VNAV NA when using Spokane Intl altimeter setting. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8100 direct WUSED and via 036° track to DIANN and hold, continue climb-in- hold to 8100.

ASOS 135.175	SPOKANE APP CON 123.75 282.25	UNICOM 123.0 (CTAF) 0
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8100	WUSED	036° track	DIANN	
↑	✧		△	
* LNAV only				
<div><div><div>1.2</div><div>3.7 NM</div><div>6.4 NM</div></div><div><div>1.2 NM to RW34</div><div>3800</div><div>344°</div><div>5400</div></div></div>				
HOKAS				
KECCE				
Procedure Turn NA				
GS 3.00° TCH 40				
CATEGORY	A	B	C	D
LPV DA	2466-1		265 (300-1)	
LNAV/VNAV DA	2551-1¼		350 (400-1¼)	
LNAV MDA	2600-1		399 (400-1)	
CIRCLING	2700-1 489 (500-1)		2700-1½ 489 (500-1½)	
			2780-2 569 (600-2)	



NW-1. 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	NA
343°	TDZE	NA
	Apt Elev	31

RNAV (GPS)-A

EASTSOUND/ORCAS ISLAND (ORS)

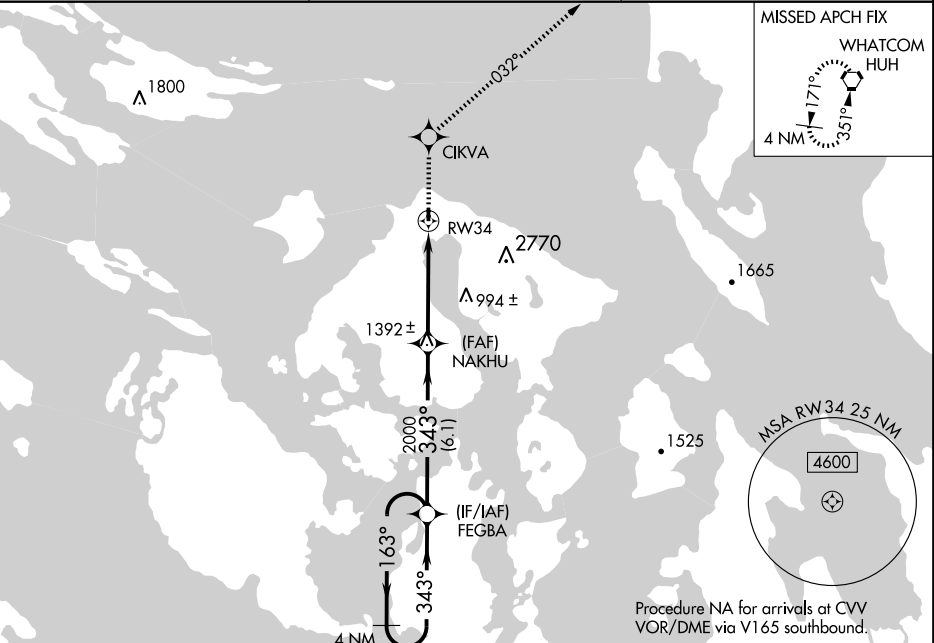
T

A

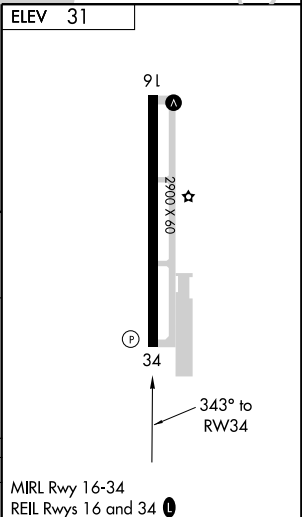
DME/DME RNP- 0.3 NA. Procedure NA at night.
When local altimeter setting not received, use Friday Harbor altimeter setting and increase MDA 40 feet.

MISSED APPROACH: Climb To 2000
direct CIKVA and via track 032°
to HUH VORTAC and hold.

AWOS-3 135.425	WIDBEY APP CON 118.2 285.65	CTAF 128.25 0
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Procedure NA for arrivals at CVV
VOR/DME via V165 southbound.



4 NM Holding Pattern	FEGBA	2000	CIKVA	trk 032°	HUH
3000 ← 163° 343° →	NAKHU	4.14° TCH 40	RW34		
2000	6.1 NM	4.4 NM			
CATEGORY	A	B	C	D	
CIRCLING	1120 - 1¼ 1089 (1100-1¼)	1120 - 1½ 1089 (1100-1½)	NA		

MIRL Rwy 16-34
REIL Rwy 16 and 34 0

APP CRS	Rwy Idg	5590
267°	TDZE	1755
	Apt Elev	1764

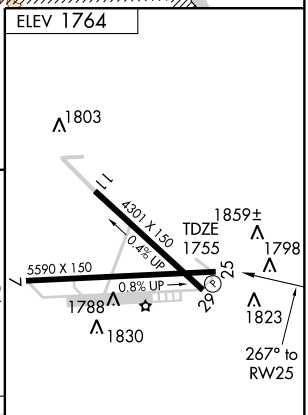
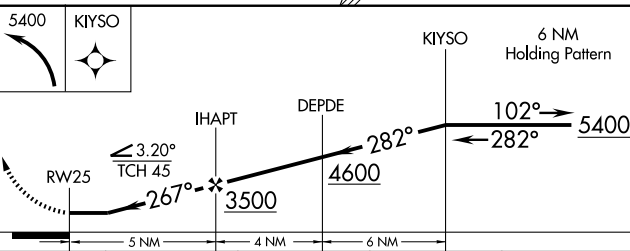
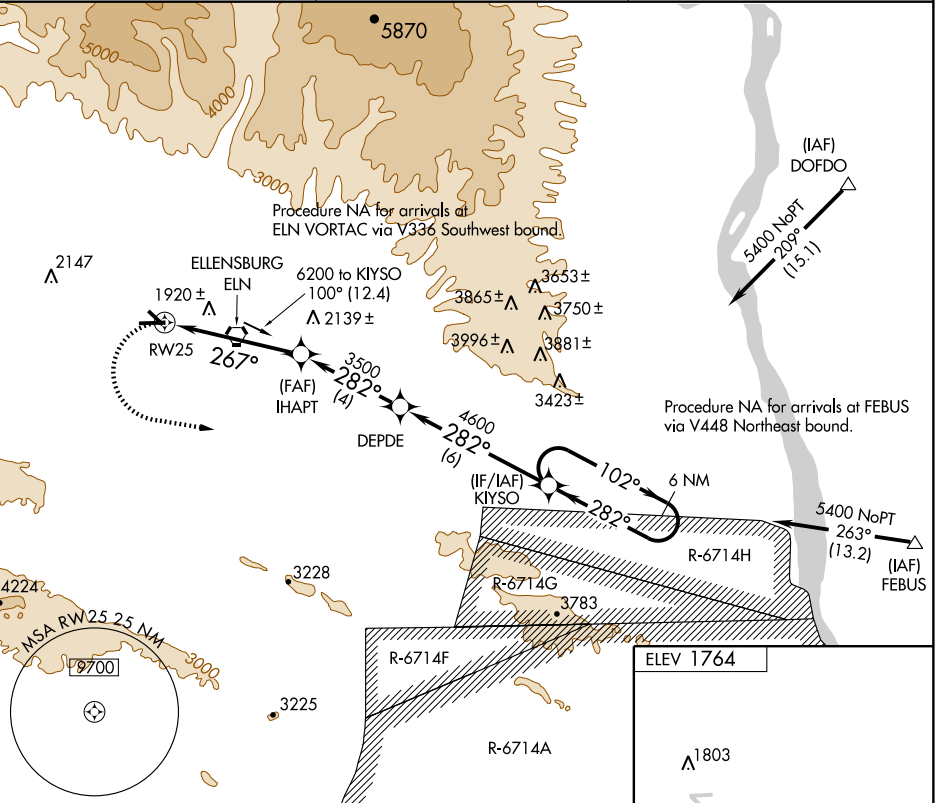
RNAV (GPS) RWY 25

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ Straight-in minimums not authorized at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Procedure not authorized when R-6714A, F, G, H are in operation. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. B ¼ mile, Cats. C/D ½ mile, and increase circling visibility Cat. B ¼ mile, Cats. C/D ½ mile.

MISSED APPROACH:
Climbing left turn to 5400
direct KIYSO and hold.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) 📻
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CATEGORY	A	B	C	D
LNAV MDA	2360-1 605 (600-1)	2360-1¾ 605 (600-1¾)	2360-2 605 (600-2)	2360-2 605 (600-2)
CIRCLING	2360-1 596 (600-1)	2360-1¾ 596 (600-1¾)	2500-2¼ 736 (800-2¼)	2500-2¼ 736 (800-2¼)

REIL Rwy 29
MIRL Rwy 11-29 **📻**

NW-1, 22 OCT 2009 to 19 NOV 2009

APP CRS
297°

Rwy Idg
TDZE
Apt Elev

4301
1759
1764

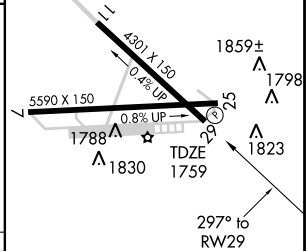
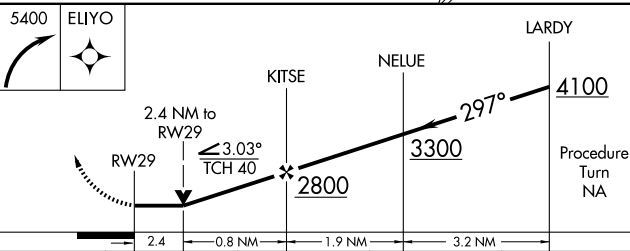
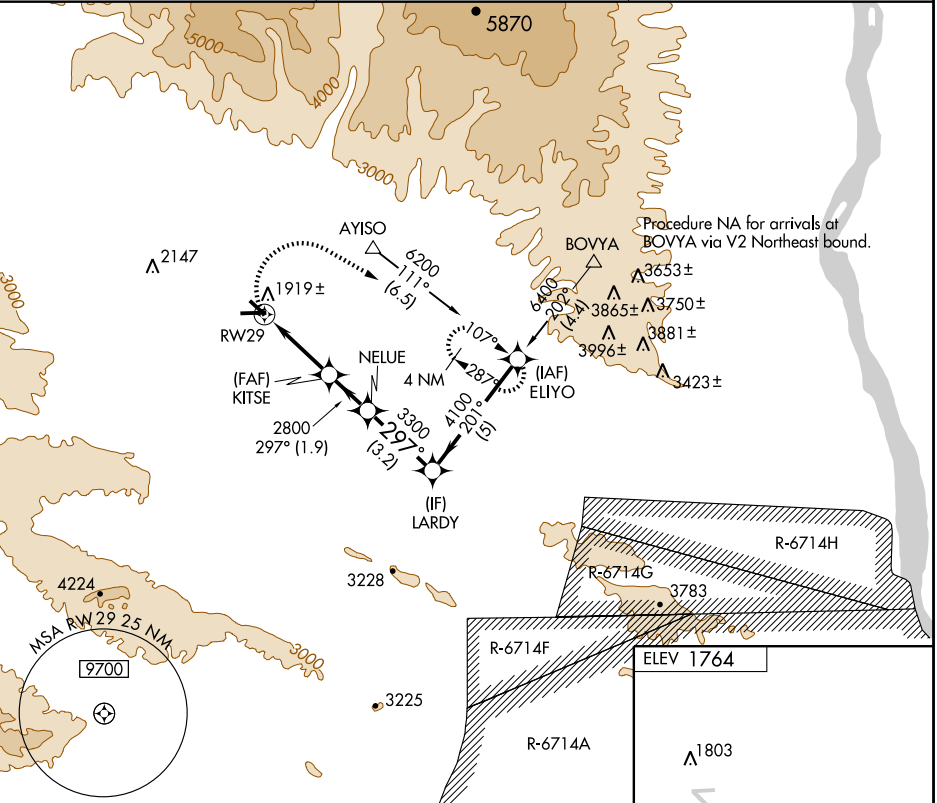
RNAV (GPS) RWY 29

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. A and circling Cat. A ¼ mile. VDP NA when using Wenatchee altimeter setting.

MISSED APPROACH: Climbing right turn to 5400 direct ELIYO and hold, continue climb-in hold to 5400.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) ①
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CATEGORY	A	B	C	D
LNAV MDA	2560-1 801 (800-1)	2560-1¼ 801 (800-1¼)	NA	
CIRCLING	2560-1 796 (800-1)	2560-1¼ 796 (800-1¼)	NA	

REIL Rwy 29

MIRL Rwy 11-29 **①**

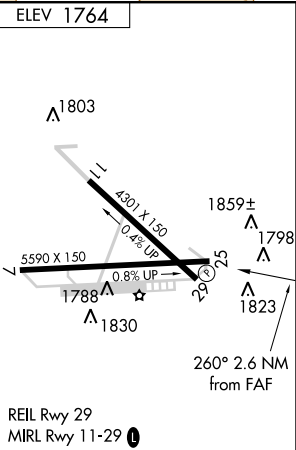
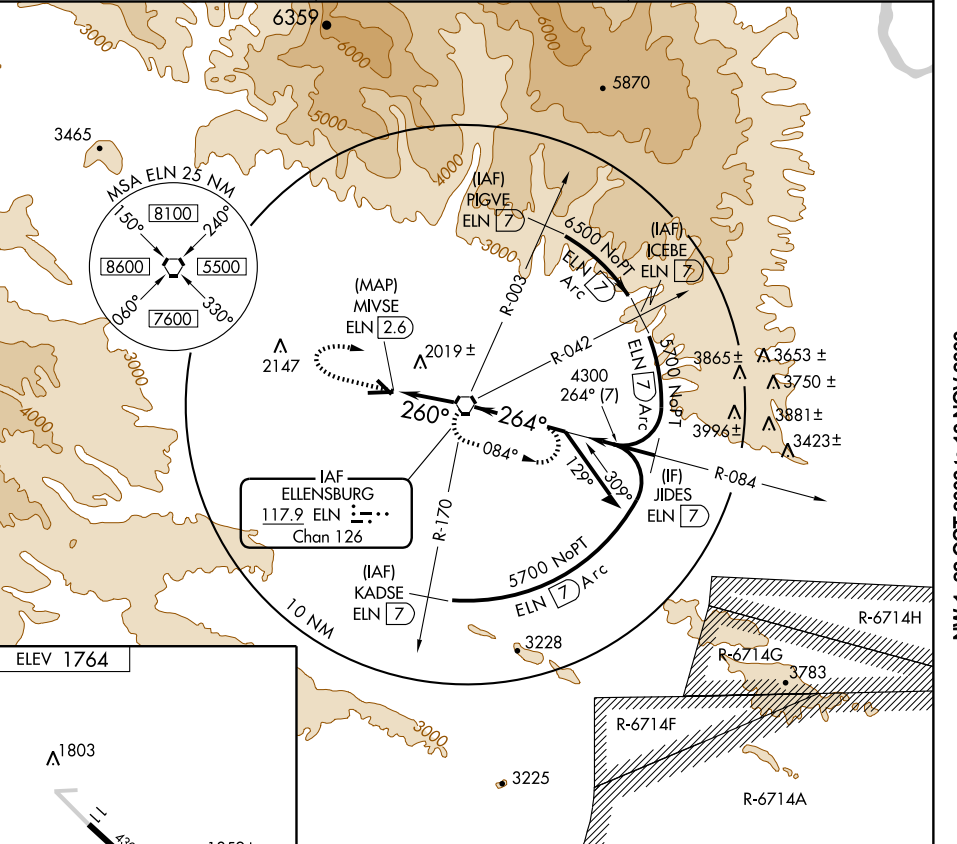
NW-1. 22 OCT 2009 to 19 NOV 2009

VORTAC ELN	APP CRS	Rwy Idg TDZE	N/A
117.9	260°		N/A
Chan 126		Apt Elev	1764

ELLENSBURG/BOWERS FIELD (ELN)

<div><div></div><div>When local altimeter setting not received, use Wentachee altimeter setting.</div></div>	MISSED APPROACH: Climb to 4400 then climbing right turn to 5700 direct to ELN VORTAC and hold, continue climb-in-hold to 5700.
--	--


ASOS	SEATTLE CENTER	UNICOM
118.375	132.6 269.35	123.0 (CTAF) 1



FAF to MAP 2.6 NM	CATEGORY	A	B	C	D
Knots 60 90 120 150 180	CIRCLING	3260-1¼		NA	
Min:Sec 2:36 1:44 1:18 1:02 0:52		1496 (1500-1¼)			

VORTAC ELN <u>117.9</u> Chan 126	APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 1763
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VOR/DME-A
ELLENSBURG/BOWERS FIELD (ELN)

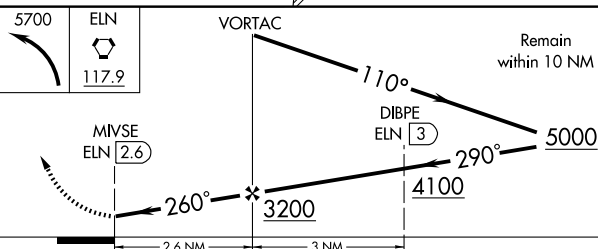
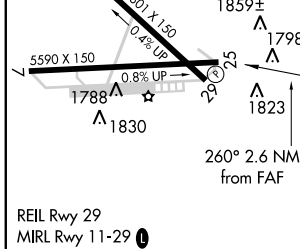
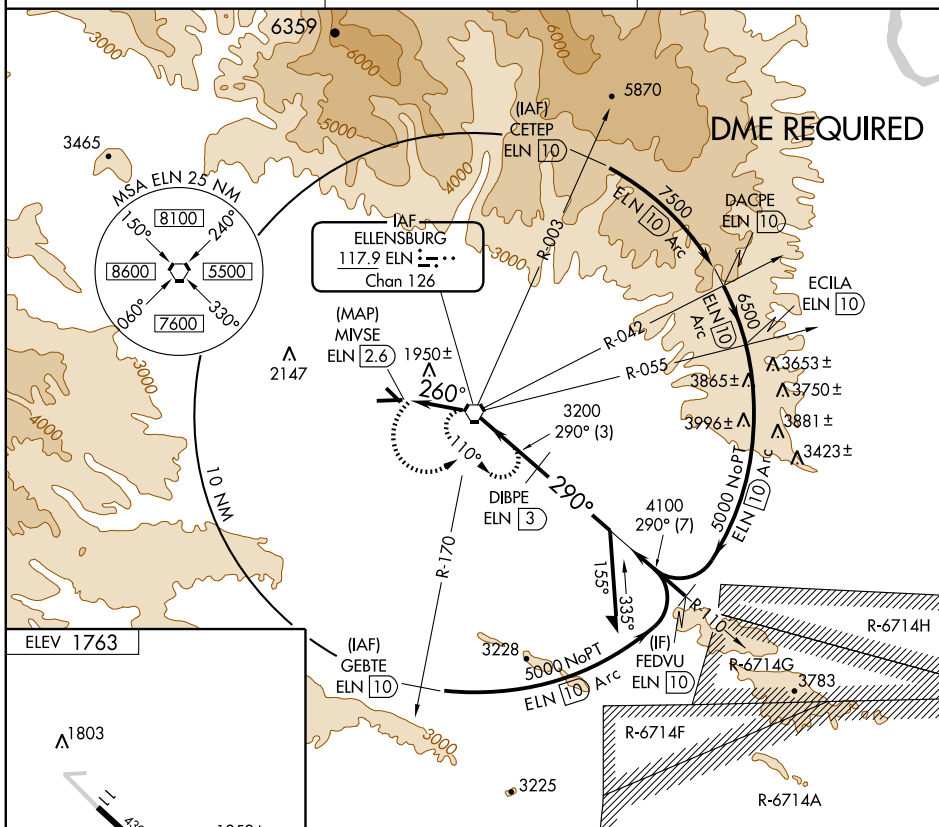
	<p>If local altimeter setting not received, use Wenatchee altimeter setting and increase all MDAs 140 feet. Procedure not authorized when R-6714A, F, G, H are in operation.</p>
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MISSED APPROACH: Climbing left turn to 5000 direct to ELN VORTAC and hold.

ASOS
118,375

SEATTLE CENTER
132.6 269.35

UNICOM
123.0 (CTAF) **L**



FAF to MAP 2.6 NM					
Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

CATEGORY	A	B	C	D
CIRCLING	2280-1 517 (600-1)	2340-1 577 (600-1)	NA	

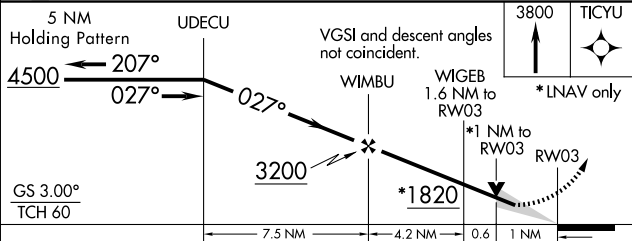
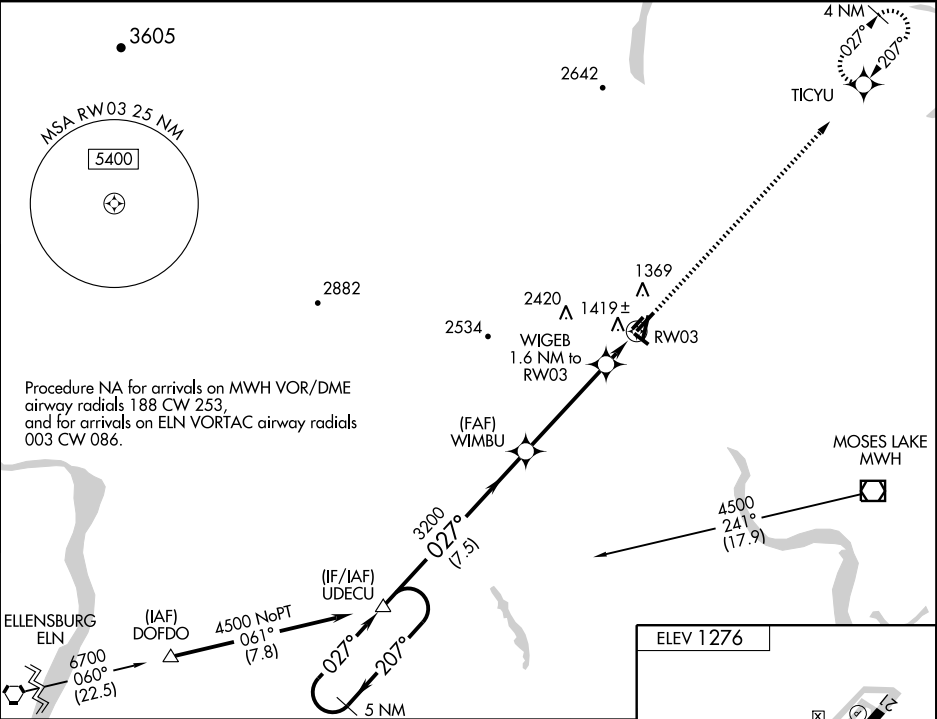
WAAS CH 50208 W03A	APP CRS 027°	Rwy Idg TDZE Apt Elev	5500 1269 1276
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RNAV (GPS) RWY 3
EPHRATA MUNI (EPH)

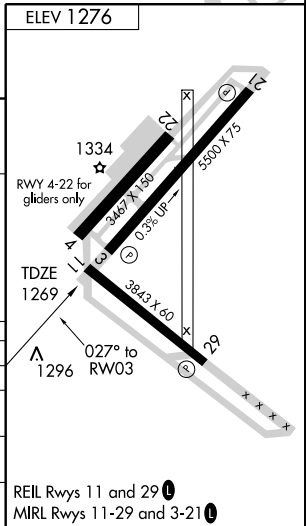
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA, VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet and LNAV Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 3800 direct TICYU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	1519-1	250 (300-1)		
LNAV/VNAV DA	1689-1½	420 (500-1½)		
LNAV MDA	1680-1	411 (500-1)	1680-1¼	411 (500-1¼)
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1½ 504 (600-1½)	2500-3 1224 (1300-3)



WAAS CH 82308 W21A	APP CRS 207°	Rwy Idg TDZE Apt Elev	5500 1276 1276
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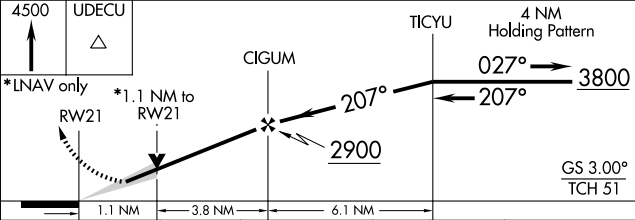
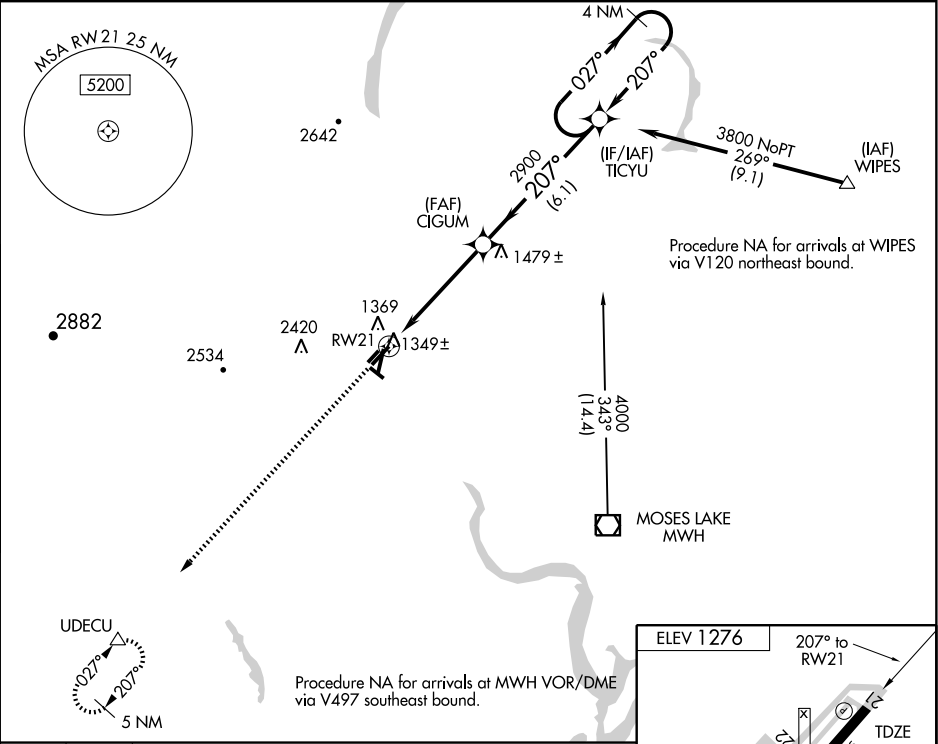
RNAV (GPS) RWY 21

EPHRATA MUNI (EPH)

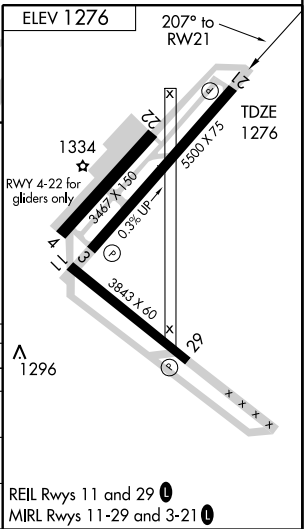
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet. Increase LNAV Cat. C visibility ¼ mile.

MISSED APPROACH: Climb to 4500 direct UDECU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		1526-1	250 (300-1)	
LNAV/VNAV DA		2169-4	893 (900-4)	
LNAV MDA	1660-1	384 (400-1)		1660-1¼ 384 (400-1¼)
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1½ 504 (600-1½)	2500-3 1224 (1300-3)



VORTAC EPH <u>112.6</u> Chan 73	APP CRS 022°	Rwy Idg 5500 TDZE 1269 Apt Elev 1276
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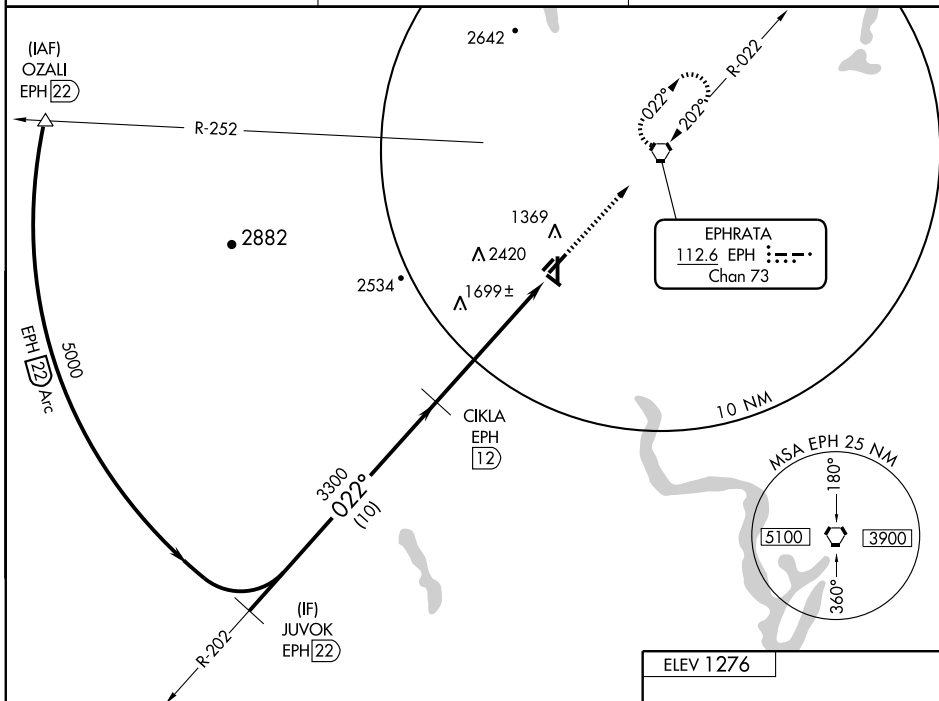
VOR/DME RWY 3
EPHRATA MUNI (EPH)

- T** When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all MDA 40 feet.
- A** VDP NA when using Moses Lake/Grant County Intl altimeter setting.

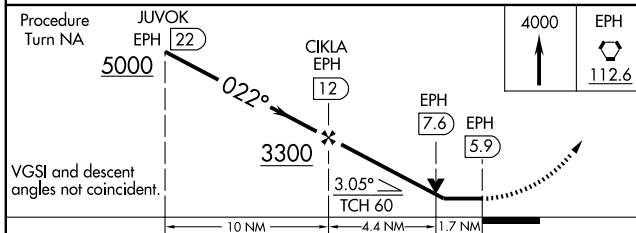
MISSED APPROACH: Climb to 4000 direct EPH VORTAC and hold, continue climb-in-hold to 4000.

ASOS
135.775

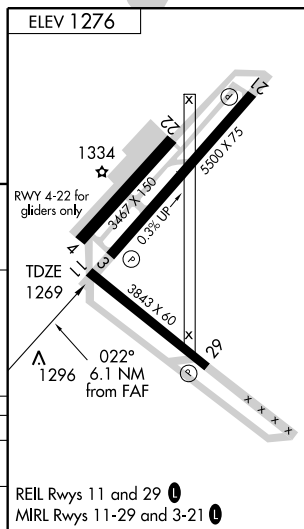
GRANT COUNTY APP CON ★
126.4 379.95

UNICOM
122.8 (CTAF) **L**

NW-1. 22 OCT 2009 to 19 NOV 2009



CATEGORY	A	B	C	D
S-3	1960-1	691 (700-1)	1960-2 691 (700-2)	1960-2¼ 691 (700-2¼)
CIRCLING	1960-1	684 (700-1)	1960-2 684 (700-2)	2500-3 1224 (1300-3)

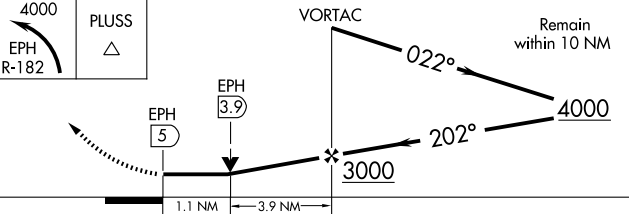
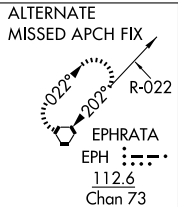
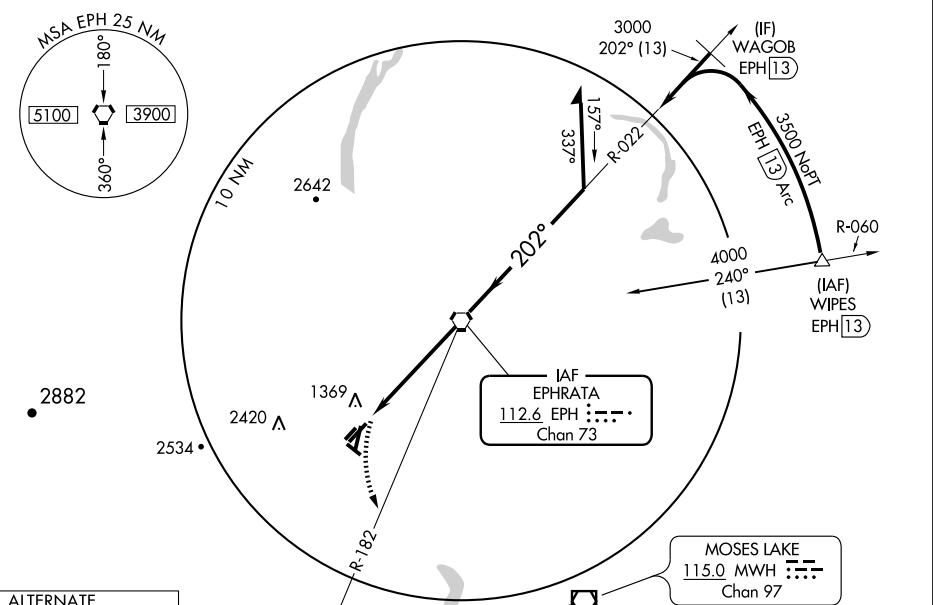


VORTAC EPH	APP CRS	Rwy Idg	5500
112.6	202°	TDZE	1276
Chan 73		Apt Elev	1276

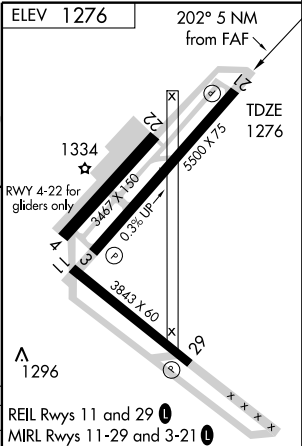
When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all MDA 40 feet, increase S-21 Cat D visibility 1/4 mile. VDP NA when using Moses Lake/Grant County Intl altimeter setting. Final approach from EPH VORTAC holding pattern not authorized. Procedure turn required.

MISSED APPROACH: Climbing left turn to 4000 via EPH R-182 to PLUS Int/EPH 13.3 DME and hold. Continue climb-in-hold to 4000.

ASOS 135.775	GRANT COUNTY APP CON★ 126.4 379.95	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
S-21	1680-1	404 (500-1)	1680-1 1/4	404 (500-1 1/4)
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1 1/2 504 (600-1 1/2)	2500-3 1224 (1300-3)

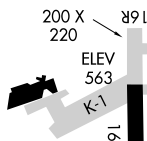


FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

AIRPORT DIAGRAM

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (P.A.E.)
AL-142 (FAA) EVERETT, WASHINGTON

ATIS
128.65
PAINE TOWER★
120.2 256.7 (East of Rwy 16L-34R)
132.95 256.7 (West of Rwy 16R-34L)
GND CON
121.8 339.8
CLNC DEL
126.75



BOEING PLANT

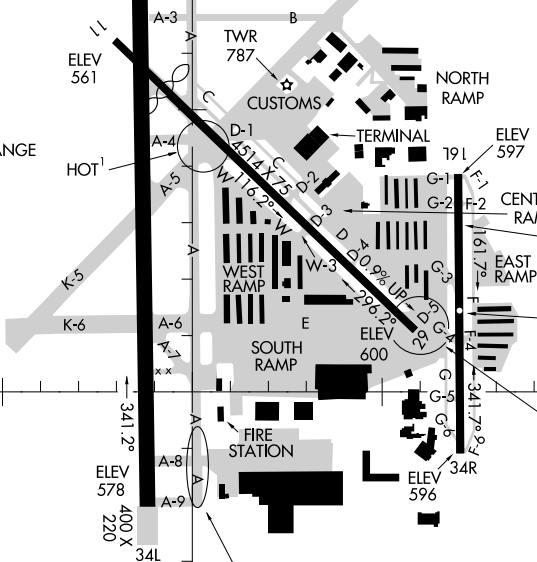
VOR/DME
(ON ROOF)

BOEING RAMP

RWY 16R-34L
S100, D200, ST175, DT350, DDT830
RWY 16L-34R
S12.5
RWY 11-29
S30



JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W



47° 55'N

47° 54'N

122° 18'W 122° 17'W 122° 16' W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1. 22 OCT 2009 to 19 NOV 2009

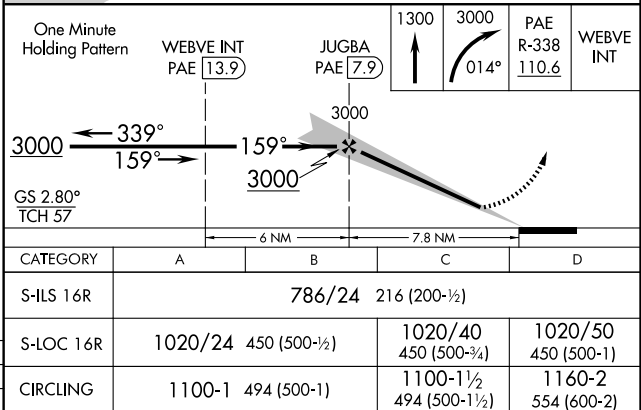
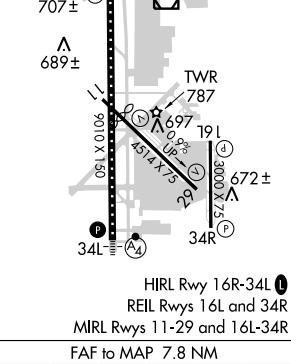
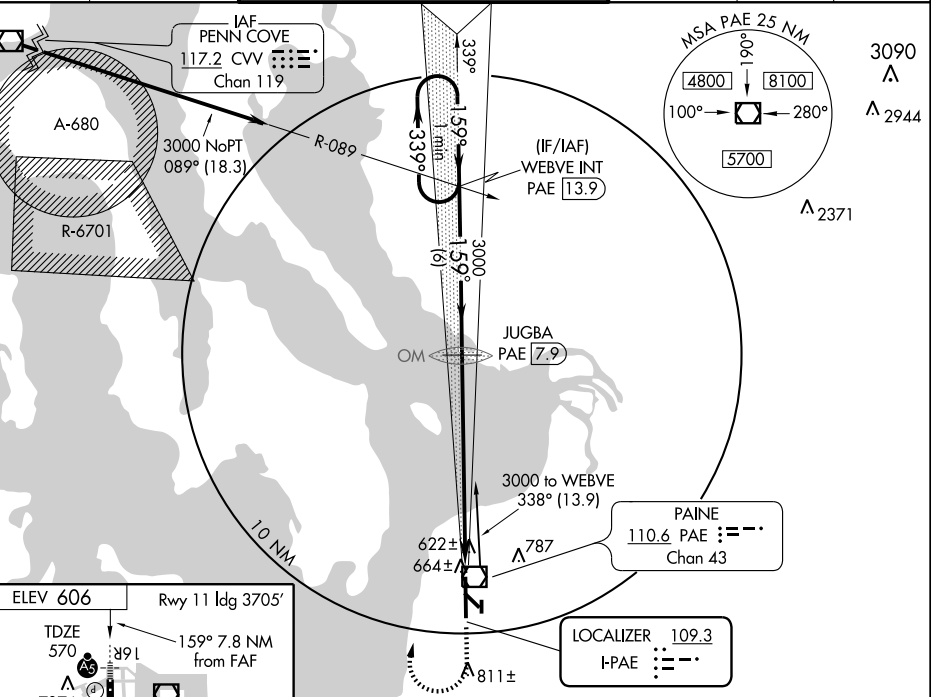
ILS or LOC/DME RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)



MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 via heading 014° and PAE VOR/DME R-338 to WEBVE INT/PAE 13.9 DME and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINÉ TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 0 256.7			GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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ATIS 128.65

CLNC DEL

126.75

GND CON

121.8 339.8

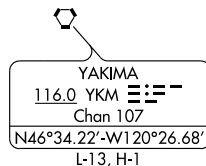
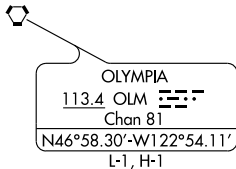
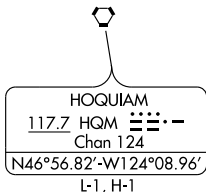
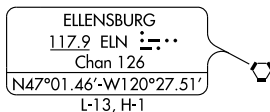
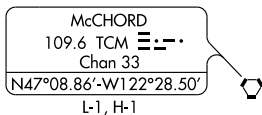
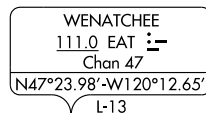
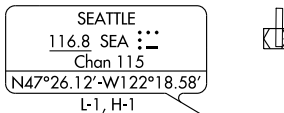
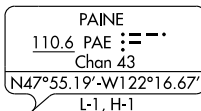
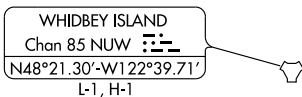
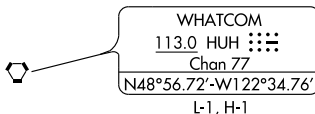
PAINE TOWER *

120.2 256.7 (E of Rwy 16L-34R)

132.95 (CTAF) 256.7 (W of Rwy 16R-34L)

SEATTLE CENTER

128.5 306.9



NOTE: Chart not to scale.

NOTE: Center may assign initial heading to be flown and vector departures in all quadrants within 10 miles of the Paine Airport provided no altitude restrictions are imposed prior to reaching MVA.

DEPARTURE ROUTE DESCRIPTION

Fly Runway heading or as assigned; expect vectors to join assigned route.

Maintain assigned altitude; expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with SEATTLE CENTER upon reaching 2000', continue climb to assigned altitude and proceed direct to PAE VOR/DME. Thence via assigned route.

WAAS
CH 60911
W16A

APP CRS
159°

Rwy Idg	9010
TDZE	565
Apt Elev	606

RNAV (GPS) RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

T For inoperative MALSR increase LPV visibility to RVR 5000 all Cats. Increase LNAV Cat. D visibility to RVR 6000. DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F).

MALSR

A5

MISSED APPROACH: Climb to 3000 direct DUVPE and via 249° track to FOVUS and via 001° track to ZAGIC and hold.

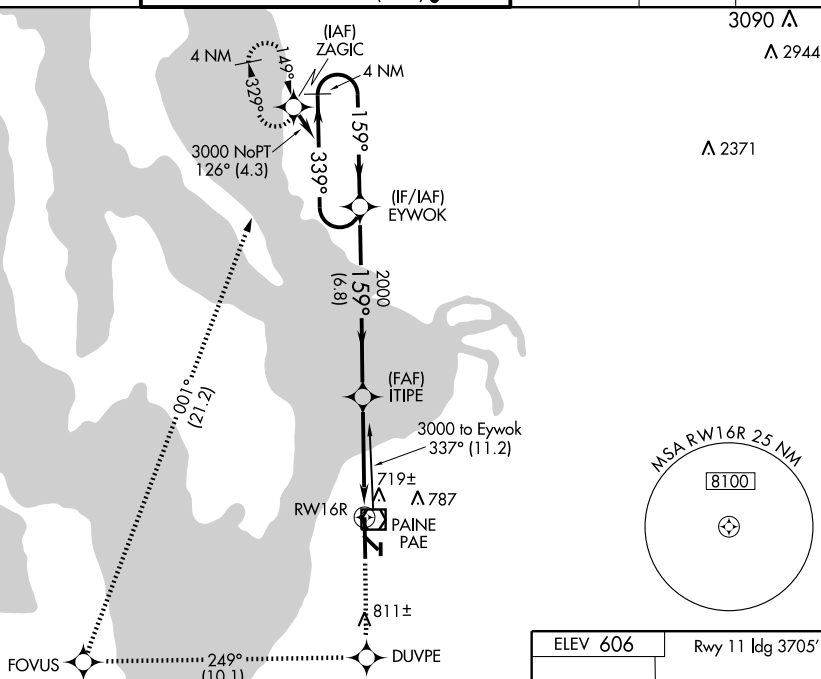
ATIS
128.65

SEATTLE CENTER
128.5 306.9

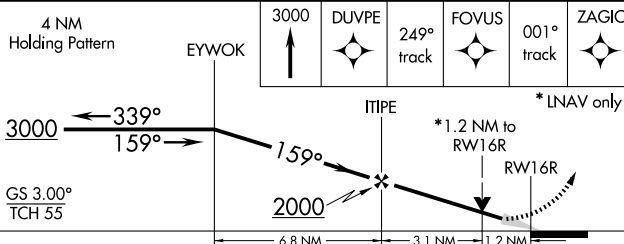
Paine Tower*	
(E of Rwy 16L-34R)	(W of Rwy 16R-34L)
120.2 256.7	132.95 (CTAF) 256.7

GND CON
121.8 339.8

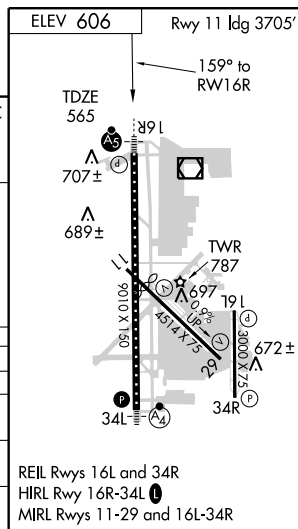
CLNC DEL
126.75

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009



CATEGORY	A	B	C	D
LPV DA	830/24 265 (300-½)			
LNAV/DA	1000/50 435 (400-1)			
LNAV MDA	980/24 415 (400-½)		980/40 415 (400-¾)	980/50 415 (400-1)
CIRCLING	1100-1½ 494 (500-1½)			1180-2 574 (600-2)



WAAS CH 65611 W34A	APP CRS 339°	Rwy Idg TDZE Apt Elev	9010 579 606
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RNAV (GPS) RWY 34L

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (P.A.E.)



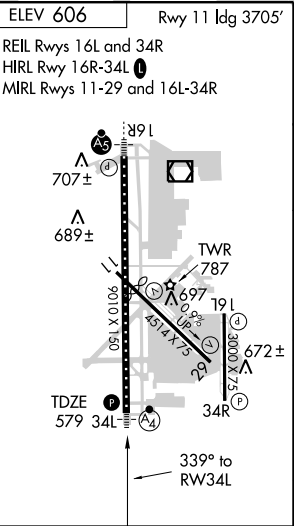
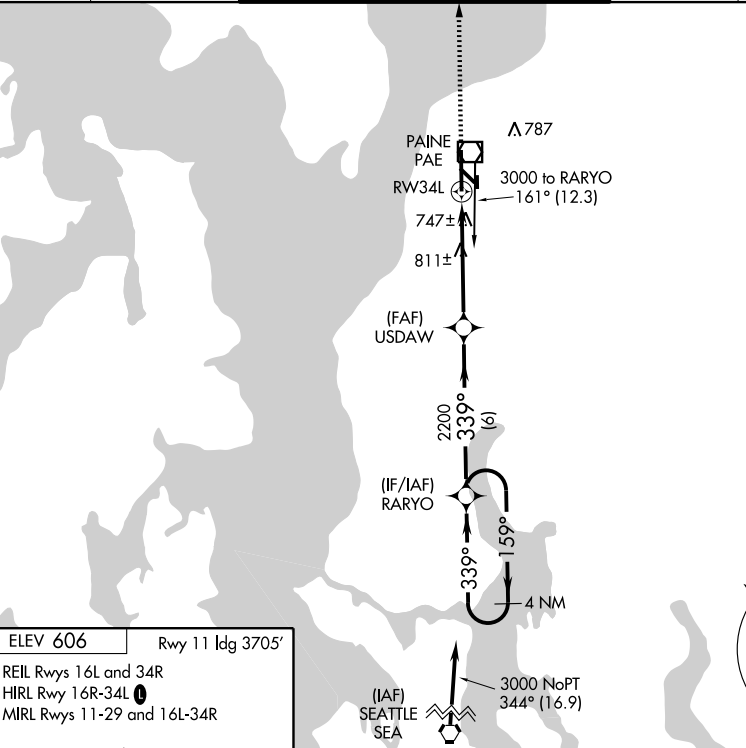
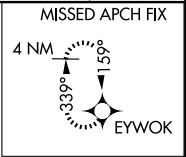
DME/DME RNP-0.3 NA.
Baro-VNAV NA below -16°C (4°F).
Inoperative table does not apply to LPV and LNAV/VNAV
all Cats and LNAV Cat C.

MALSF



MISSED APPROACH: Climb to 3000 direct
EYWOK and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER* (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 0 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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3000	EYWOK	VGSI and RNAV glidepath not coincident.			
		USDAW	RARYO	4 NM Holding Pattern	
*LNAV only	*1.5 NM to RW34L	339°	159°	3000	GS 3.00° TCH 51
	1.5	3.4 NM	6 NM		
CATEGORY	A	B	C	D	
LPV DA	920-1¼ 341 (400-1¼)				
LNAV/VNAV DA	1040-1½ 461 (500-1½)				
LNAV MDA	1140-¾ 561 (600-¾)		1140-1½ 561 (600-1½)	1140-1¾ 561 (600-1¾)	
CIRCLING	1140-1½ 534 (600-1½)			1180-2 574 (600-2)	

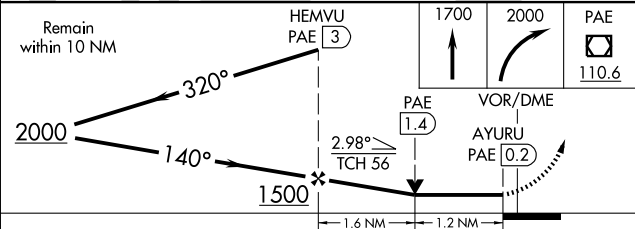
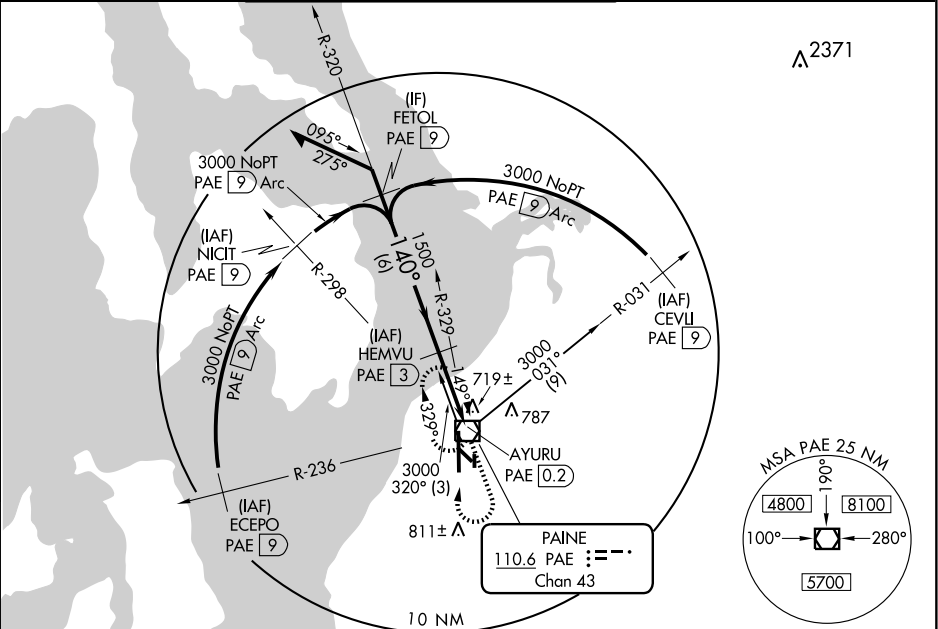
VOR/DME PAE	APP CRS	Rwy Idg	9010
110.6	140°	TDZE	565
Chan 43		Apt Elev	606

VOR/DME RWY 16R

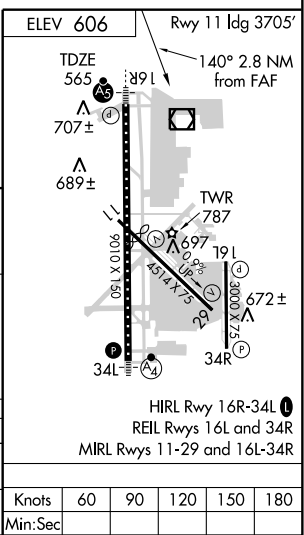
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

 For inoperative MALSR, increase S-16R Cat. D visibility to RVR 6000.	 MALSR	MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.
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ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	980/24 415 (400-½)		980/40 415 (400-¾)	980/50 415 (400-1)
CIRCLING	1100-1 494 (500-1)		1100-1½ 494 (500-1½)	1180-2 574 (600-2)



AL-142 (FAA)

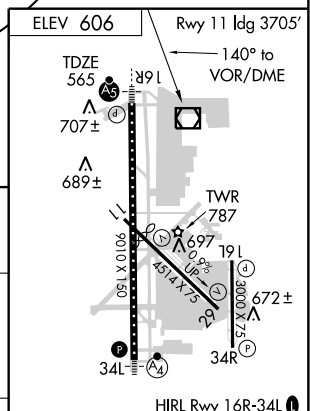
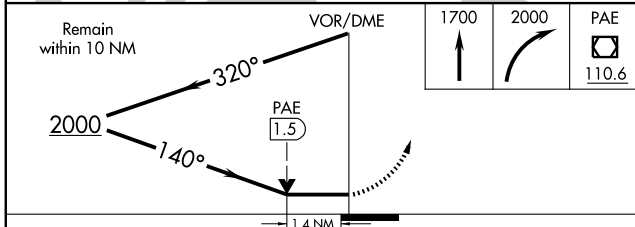
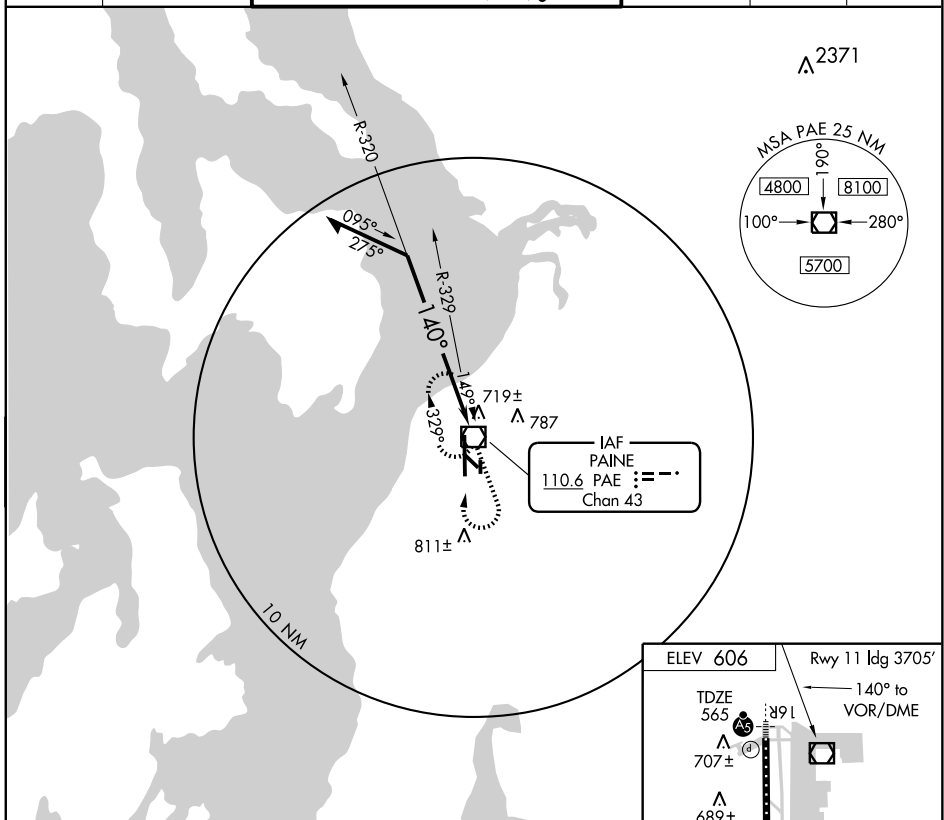
VOR RWY 16R
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

VOR RWY 16R

MALSR

MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.

ATIS	SEATTLE CENTER	FAINE TOWER *		GND CON	CLNC DEL	UNICOM
128.65	128.5 306.9	(E of Rwy 16L-34R)	(W of Rwy 16R-34L)			
		120.2 256.7	132.95 (CTAF) 256.7	121.8 339.8	126.75	122.95



CATEGORY	A	B	C	D
S-16R	1020/24	455 (500-½)	1020/40 455 (500-¾)	1020/50 455 (500-1)
CIRCLING	1100-1	494 (500-1)	1100-1½ 494 (500-1½)	1180-2 574 (600-2)

Knots	60	90	120	150	180
Min:Sec					

NW-1. 22 OCT 2009 to 19 NOV 2009

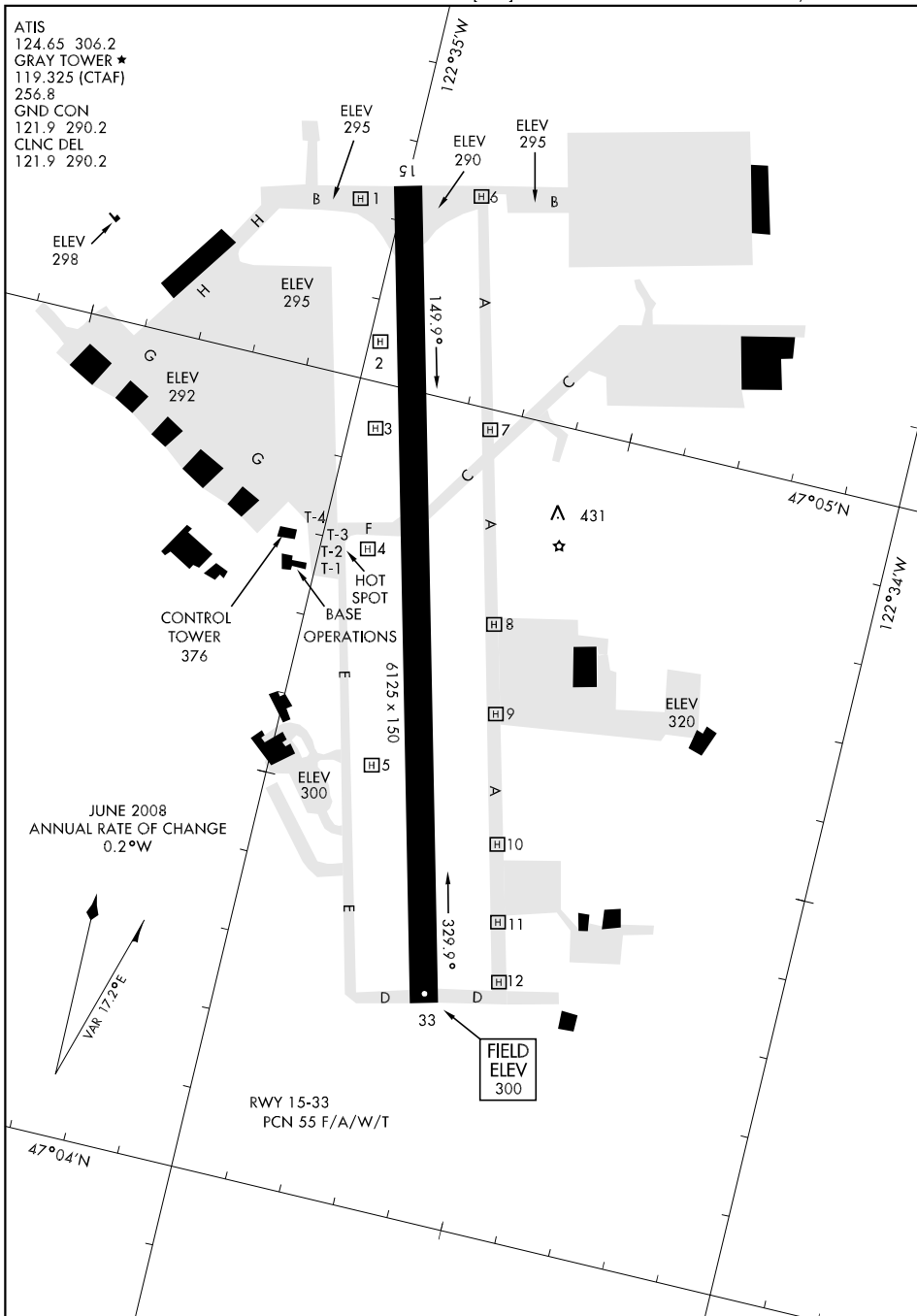
AIRPORT DIAGRAM

AFD-413 [USA]

FORT LEWIS, WASHINGTON

ATIS
124.65 306.2
GRAY TOWER ★
119.325 (CTAF)
256.8
GND CON
121.9 290.2
CLNC DEL
121.9 290.2

NW-1, 22 OCT 2009 to 19 NOV 2009



AIRPORT DIAGRAM

FORT LEWIS, WASHINGTON

LOM GR 216	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 299 300
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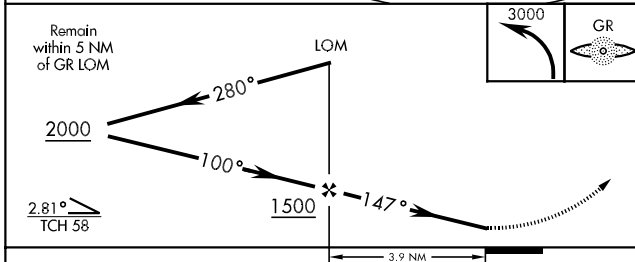
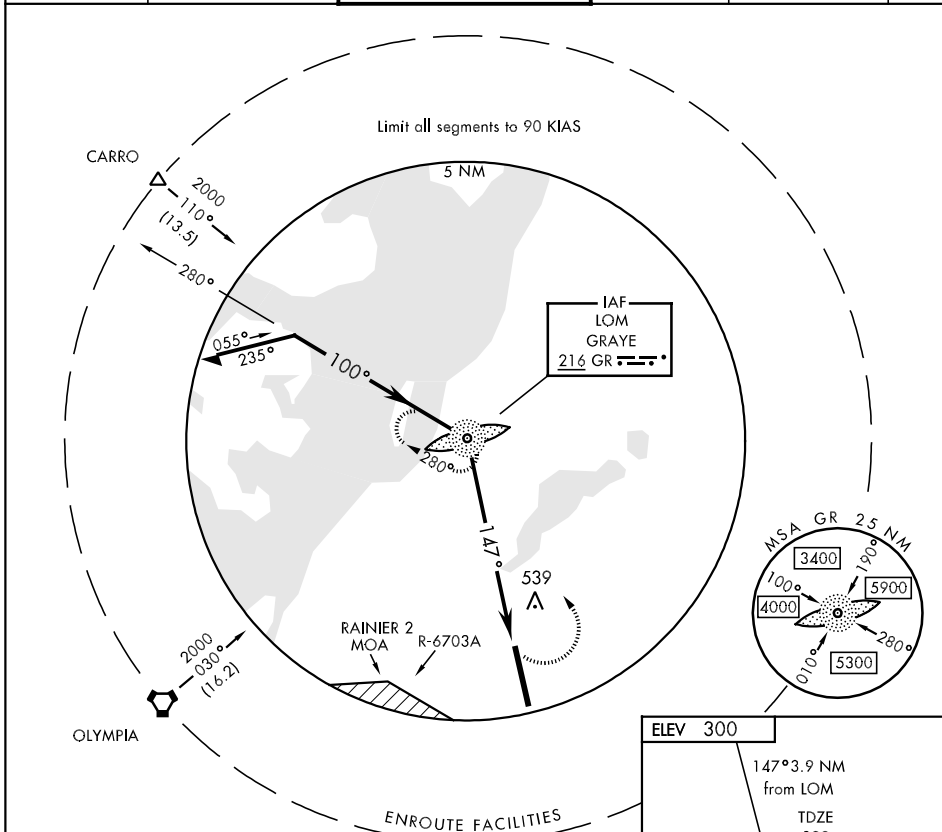
AL-413 [USA]

GRAY AAF (KGRF)

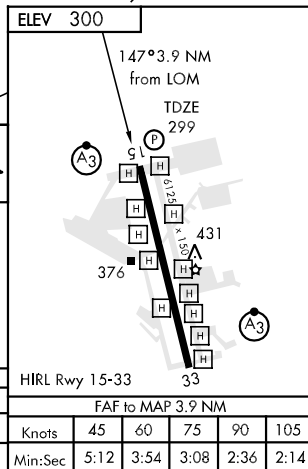


MISSED APPROACH: Climbing left turn to 3000 direct GR LOM and hold.

ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
-----------------------------	---------------------------------------	---	-------------------------------	--------------------------------	-----



CATEGORY	COPTER			
H-15	840/24	541	(600-½)	
S-PAR 15	499/40	200	(200-¾)	GS 3.0°



LOC I-GRF 108.3 Chan 20	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 294 300
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AL-413 [USA]

GRAY AAF (KGRF)

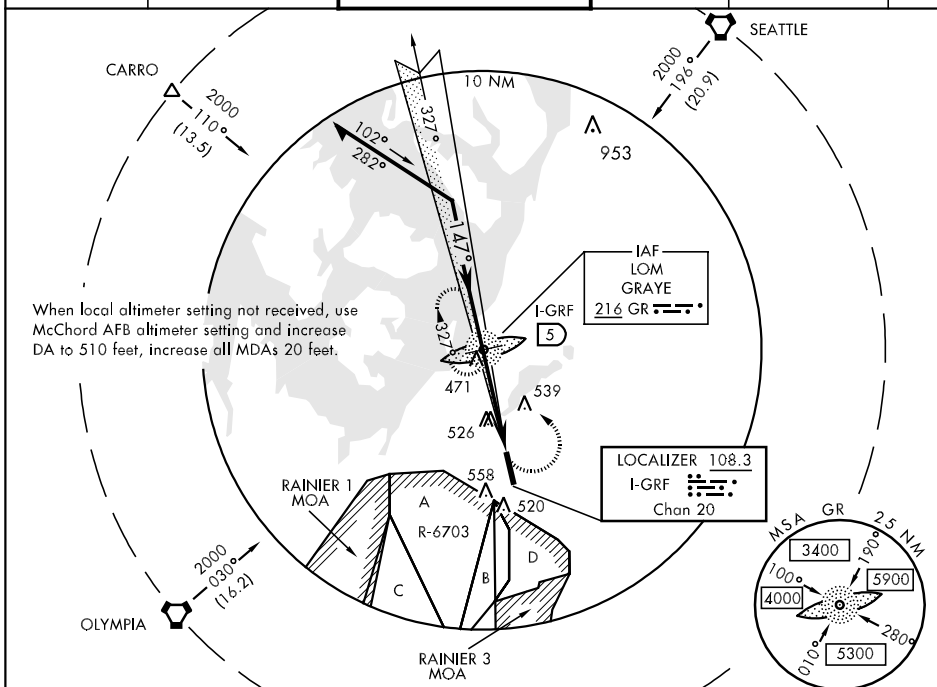
- ▼ * When ALS inop, increase CAT AB vis by ¼ mile.
 ** When ALS inop, increase CAT D vis by ¼ mile.
 ▲ *** Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 direct GR LOM and hold, continue climb-in-hold to 3000.

ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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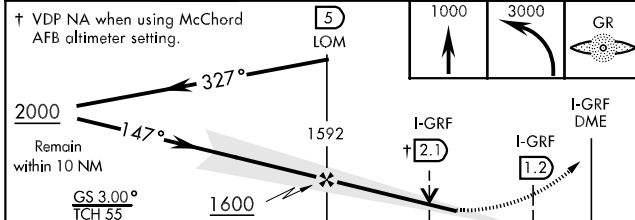


When local altimeter setting not received, use McChord AFB altimeter setting and increase DA to 510 feet, increase all MDAs 20 feet.

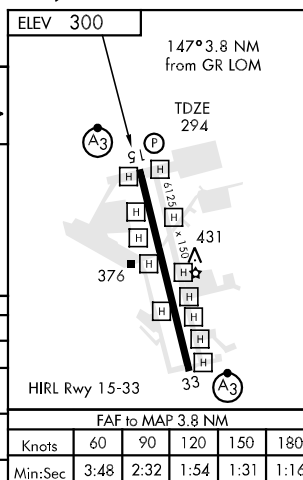
ADF REQUIRED

ENROUTE FACILITIES

† VDP NA when using McChord AFB altimeter setting.



CATEGORY	A	B	C	D
S-ILS 15 *	494/24	200 (200-½)	494/40	200 (200-¾)
S-LOC 15 **	660/40	366 (400-¾)	660/50	366 (400-1)
CIRCLING ***	780-1	480 (500-1)	780-1½	860-2
S-PAR 15	499/40	200 (200-¾)	GS 3.0°	



ATIS 124.65 306.2
CLNC DEL
121.9 290.2
GND CON
121.9 290.2
GRAY TOWER ★
119.325 (CTAF) 256.8
SEATTLE DEP CON
120.1 290.9

Rwy	Knots	60	120	180	240
15 (a)	V/V(fpm)	430	860	1290	1720
33 (b)	V/V(fpm)	380	760	1140	1520

ATC Climb Rate

(a) To 500'

(b) To 600'

SEATTLE
116.8 SEA
Chan 115

OLYMPIA
113.4 OLM
Chan 81
L-1

MC CHORD
109.6 TCM
Chan 33

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15 AND 33:

Climb via runway heading to 600', then turn left (unless otherwise directed by ATC) heading 270 for vectors to assigned route. Maintain altitude as assigned by ATC. Expect filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within three minutes after departure, continue climb to assigned altitude, intercept and proceed via SEA R-202 to OLM VORTAC, thence via assigned route.

LOM GR
216APCH CRS
147°Rwy Idg
TDZE
Arpt Elev
6125
299
300

AL-413 [USA]

GRAY AAF (KGRF)

▼ If local altimeter setting not received, use McChord AFB altimeter setting and increase all MDAs 20 feet.

▲ * Circling not authorized W of Rwy 15-33.



MISSED APPROACH: Climbing left turn to 3000 direct GR LOM and hold.

ATIS
124.65 306.2

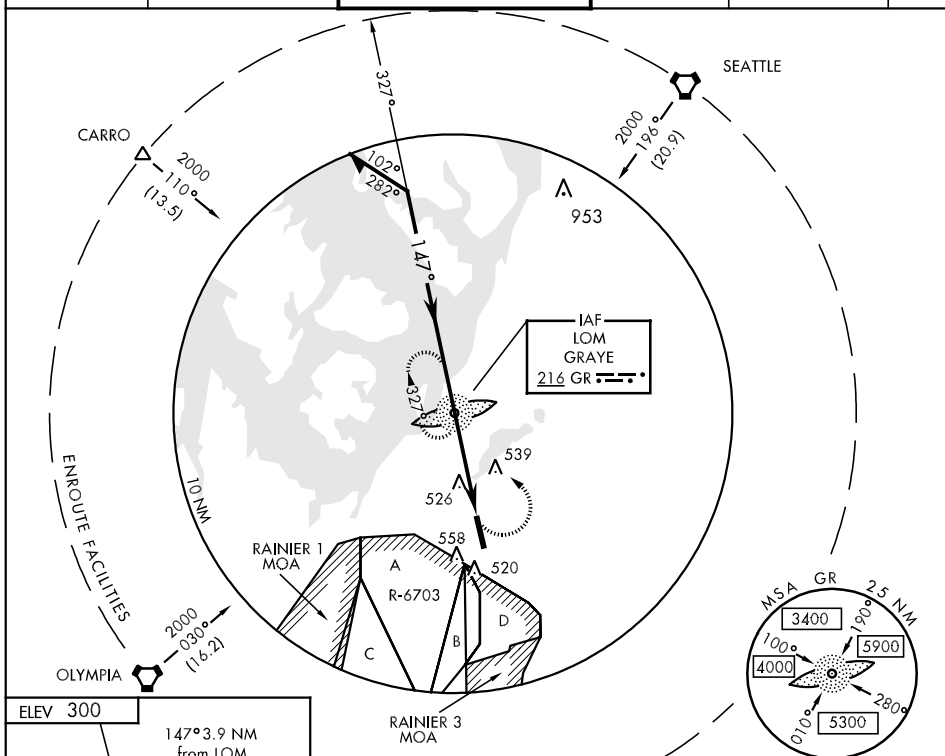
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

GND CON
121.9 290.2

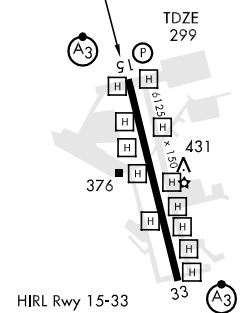
CLNC DEL
121.9 290.2

PAR



ELEV 300

147° 3.9 NM
from LOM



HIRL Rwy 15-33

FAF to MAP 3.9 NM

Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

Remain
within 10 NM

2000

2.85°
TCH 40

LOM

1500

3000



CATEGORY	A	B	C	D
S-15	840/40 541 (600-¾)	840/60 541 (600-1¼)	840-1½ 541 (600-1½)	840-1½ 541 (600-1½)
CIRCLING *	840-1 540 (600-1)	840-1½ 540 (600-1½)	840-1½ 540 (600-1½)	860-2 560 (600-2)
S-PAR 15	499/40	200 (200-¾)	GS 3.0°	

NDB LAC
328APCH CRS
327°Rwy Idg
TDZE
Arpt Elev
6125
300
300

AL-413 [USA]

GRAY AAF (KGRF)

▼ If local altimeter setting not received, use McChord AFB altimeter setting and increase all MDAs 20 feet.

▲ * Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climb to 1900 direct to GR LOM and hold.

ATIS
124.65 306.2

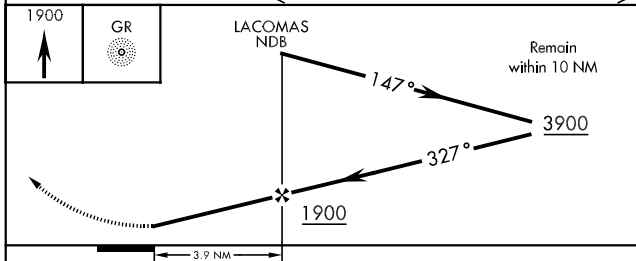
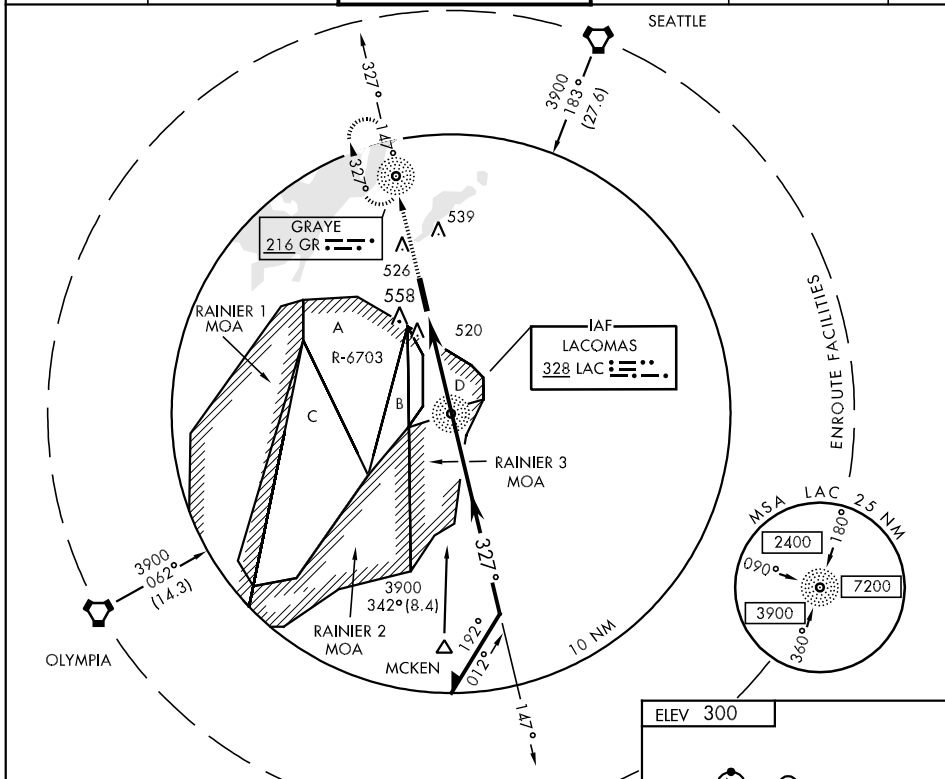
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

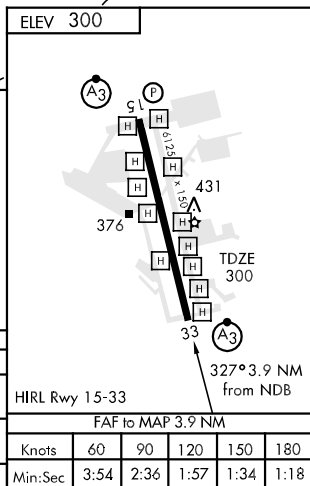
GND CON
121.9 290.2

CLNC DEL
121.9 290.2

PAR



CATEGORY	A	B	C	D
S-33	860-¾ 560 (600-¾)	860-1¼ 560 (600-1¼)	860-1½ 560 (600-1½)	NOT AUTHORIZED
CIRCLING *	860-1 560 (600-1)	860-1½ 560 (600-1½)	860-2 560 (600-2)	
S-PAR 33	500-¾ 200 (200-¾)	GS 3.0°		



NDB RWY 34
FRIDAY HARBOR (FHR)

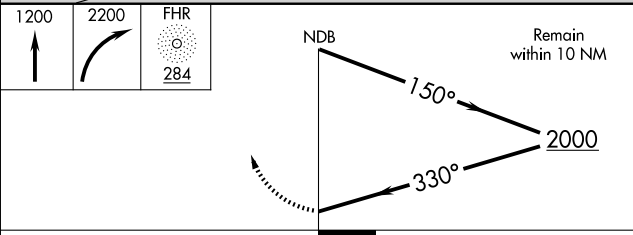
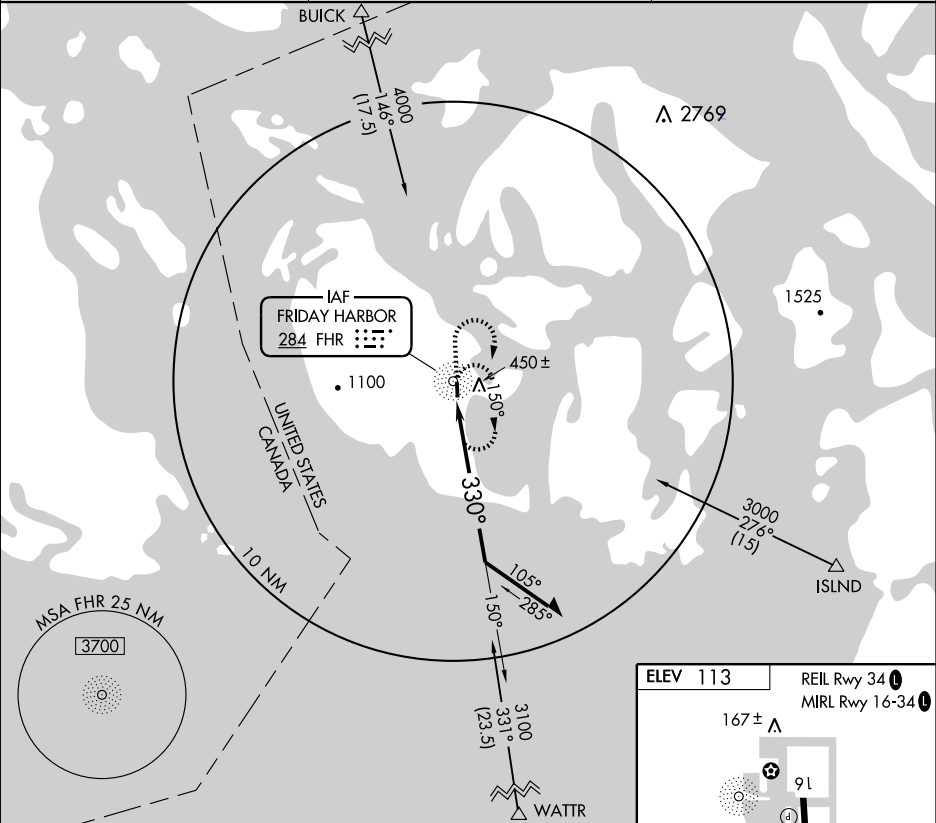
NDB FHR	APP CRS	Rwy Idg	3402
<u>284</u>	<u>330°</u>	TDZE	107
		Apt Elev	113

⚠ Circling not authorized west of Rwy 16-34.

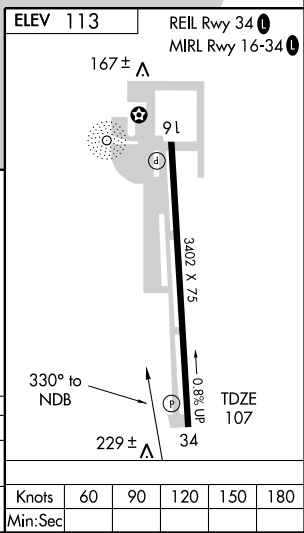
⚠ NA

MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 direct to FHR NDB and hold.

ASOS 135.675	WHIDBEY APP CON★ 118.2 285.65	CTAF 128.25 Ⓛ
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CATEGORY	A	B	C	D
S-34	860-1 753 (800-1)	860-1¼ 753 (800-1¼)	860-2¼ 753 (800-2¼)	NA
CIRCLING	860-1 747 (800-1)	860-1¼ 747 (800-1¼)	860-2¼ 747 (800-2¼)	NA



WAAS Chan 40024 W34A	APP CRS 337°	Rwy Idg 3402 TDZE 108 Apt Elev 113
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RNAV (GPS) RWY 34

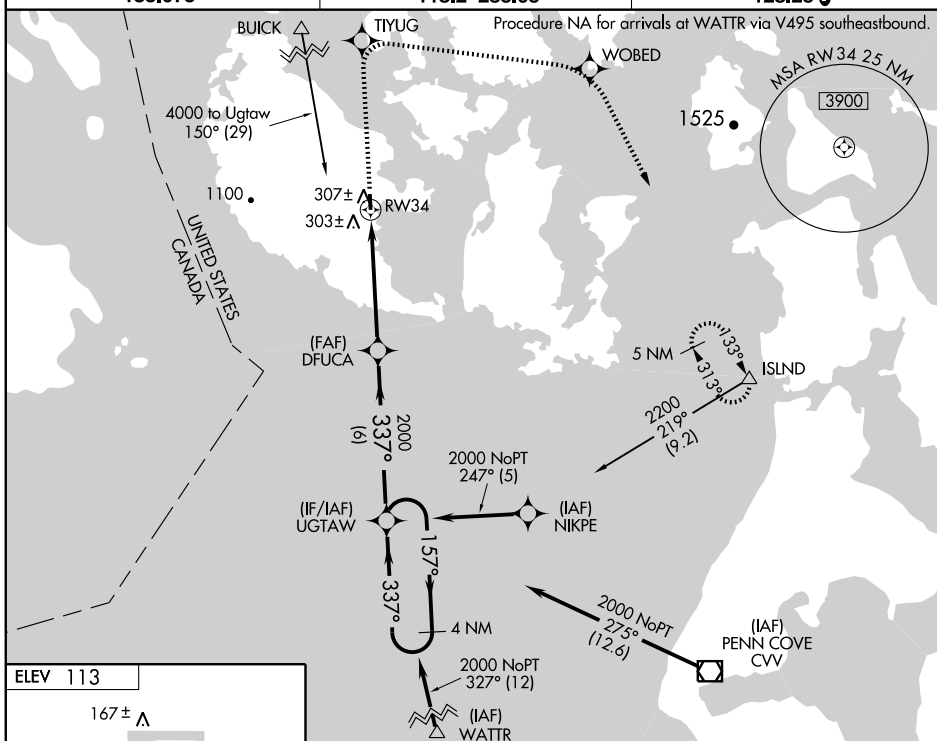
FRIDAY HARBOR (FHR)

T DME/DME RNP-0.3 NA.
Circling not authorized west of Rwy 16-34.
Baro-VNAV NA below -30°C (-22°F).
When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 5000 direct TIYUG and via 077° track to WOBE and via 133° track to ISLND and hold.

ASOS
135.675

WHIDBEY APP CON★
118.2 285.65

CTAF
128.25

ELEV 113

 $167 \pm \Delta$

24

24

34

10

REIL Rwy 34
MIRL Rwy 16-

MIRL Rwy 16-

5000 ↑	TIYUG ✦	077° Track	WOBED ✦	133° Track	ISLND △	UGTAW	4 NM Holding Pattern
<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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LOC/DME I-HQM	APP CRS	Rwy Idg
108.7	241°	5000
Chan 24		TDZE 16
		Apt Elev 18

ILS or LOC/DME RWY 24

HOQUIAM/ BOWERMAN (HQM)

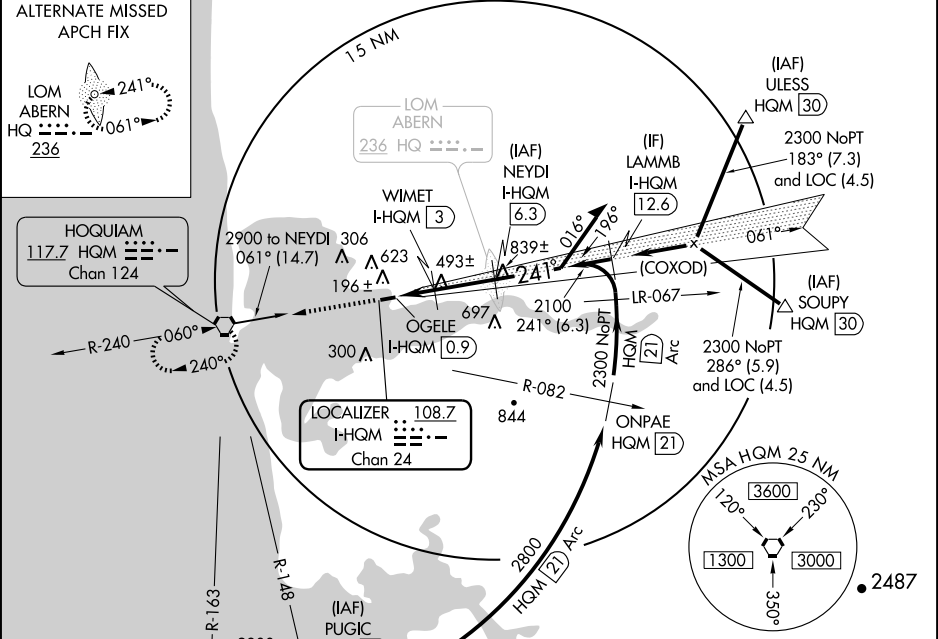
For inoperative MALS, increase S-LOC Cuts A and B visibility to 1 mile.
Circling NA northwest of Rwy 6-24.
Inoperative table does not apply to S-ILS Rwy 24.
When local altimeter setting not received, procedure NA.

MALSR

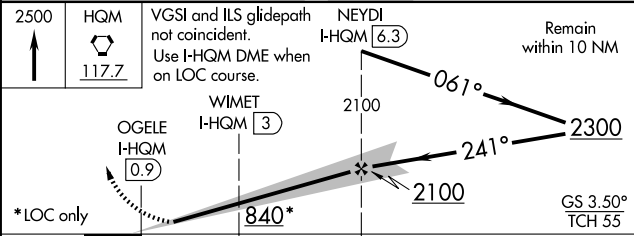


MISSED APPROACH: Climb to 2500
direct HQM VORTAC and hold.

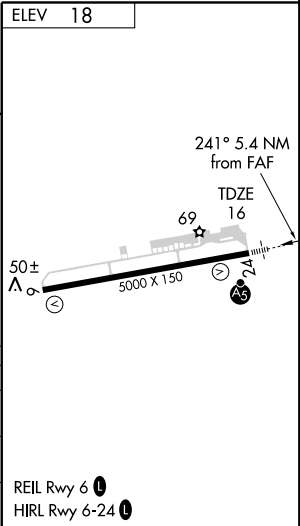
ASOS	SEATTLE CENTER	UNICOM
135.775	128.3 269.0	122.7 (CTAF) 0



DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 24	216-¾ 200 (200-¾)		286-1 270 (300-1)	NA
S-LOC 24	580-¾ 564 (600-¾)		580-1 564 (600-1)	NA
CIRCLING	580-1 562 (600-1)		580-1½ 562 (600-1½)	NA




WAAS CH 86902 W24A	APP CRS 241°	Rwy Idg TDZE Apt Elev	5000 16 18
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RNAV (GPS) RWY 24
HOQUIAM/ BOWERMAN (HQM)

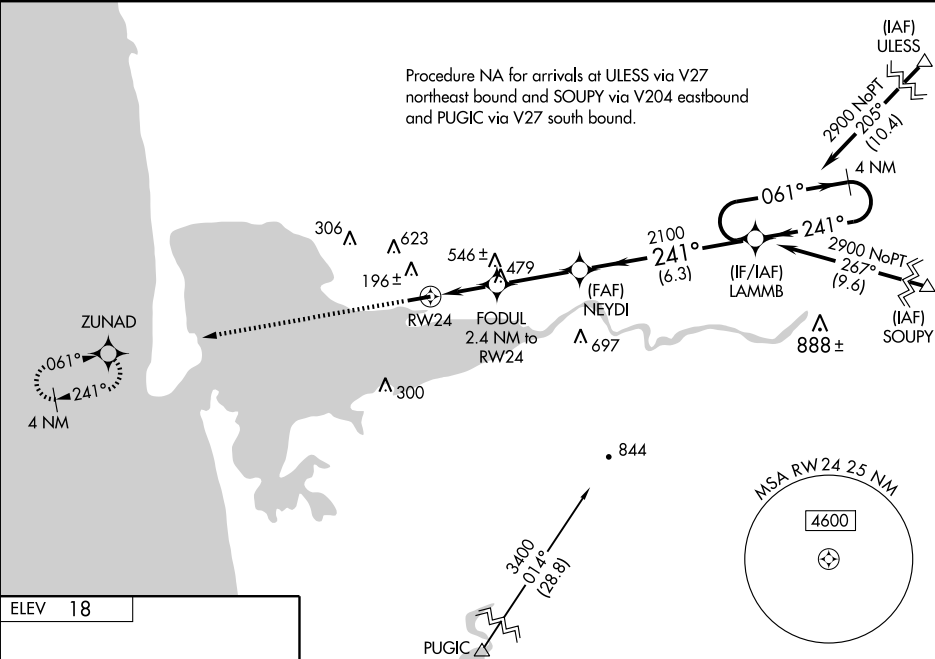
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 47°C (116°F). Inoperative table does not apply to LPV. DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. For inoperative MALSR, increase LNAV Cat A visibility to 1 mile. Circling NA northwest of Rwy 6-24. When local altimeter setting not received, procedure NA.

MALSR

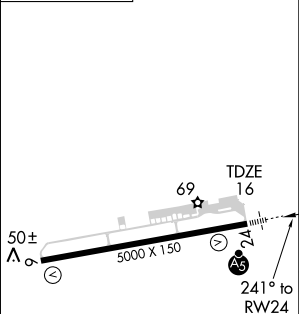


MISSED APPROACH: Climb to 2600 direct ZUNAD and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 0
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ELEV 18



2600 ZUNAD

VGSI and RNAV glidepath not coincident.

LAMMB 4 NM Holding Pattern

NEYDI

FODUL 2.4 NM to RWY 24

RWY 24

960

2100

241°

061°

2900

GS 3.50° TCH 55

CATEGORY	A	B	C	D
LPV DA	216-¾	200 (200-¾)	286-1 270 (300-1)	NA
LNAV/VNAV DA	1029-2½ 1013 (1100-2½)			NA
LNAV MDA	800-¾	784 (800-¾)	800-1¾ 784 (800-1¾)	NA
CIRCLING	800-1 782 (800-1)	800-1¼ 782 (800-1¼)	800-2¼ 782 (800-2¼)	NA

REIL Rwy 6 0
HIRL Rwy 6-24 0

⚠

⚠

Circling NA northwest of Rwy 6 and 24.
Visibility reduction by helicopters NA.

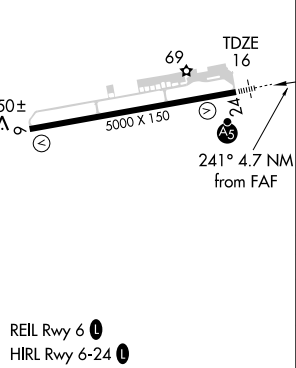
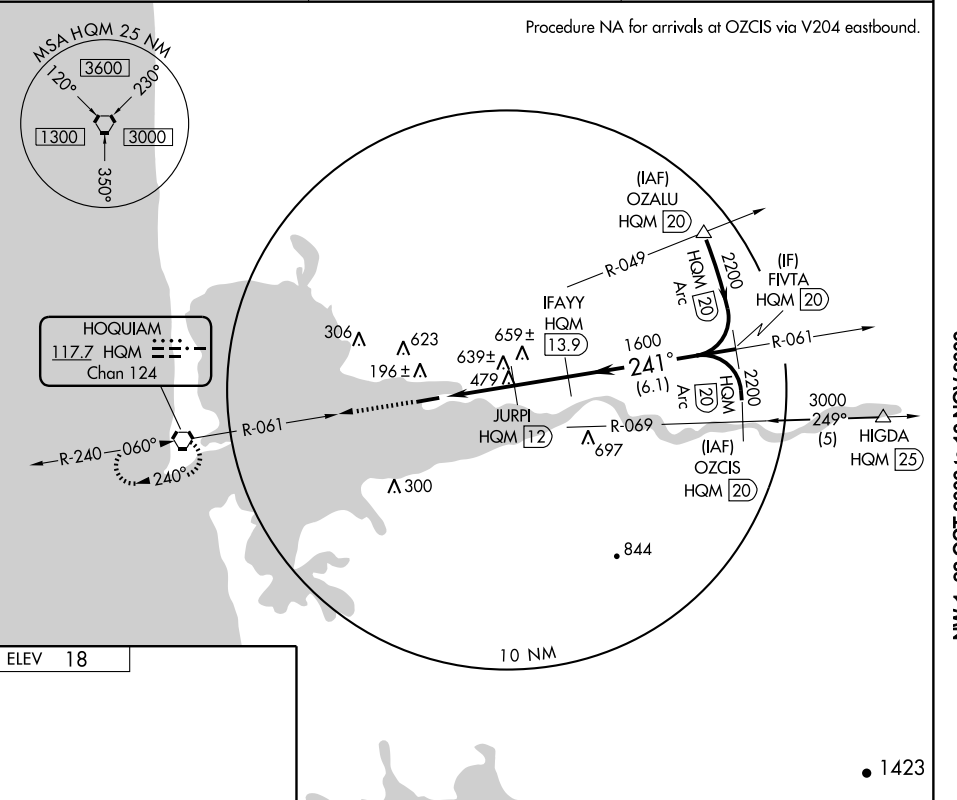
MALSR

⬆

A5

MISSED APPROACH: Climb to 2500 via HQM VORTAC
R-061 to HQM VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
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	2500	HQM		FIVTA
	HQM R-061	117.7		HQM 20
		JURPI	IFAYY	
		HQM 12	HQM 13.9	
			1600	2200
			3.10° TCH 52	
			241°	
			960	
			2.8 NM	1.9 NM
				6.1 NM
				Procedure Turn NA
CATEGORY	A	B	C	D
S-24	900-3/4	884 (900-3/4)	900-2 1/4 884 (900-2 1/4)	900-2 1/2 884 (900-2 1/2)
CIRCLING	900-1 1/4	882 (900-1 1/4)	900-2 3/4 882 (900-2 3/4)	900-3 882 (900-3)

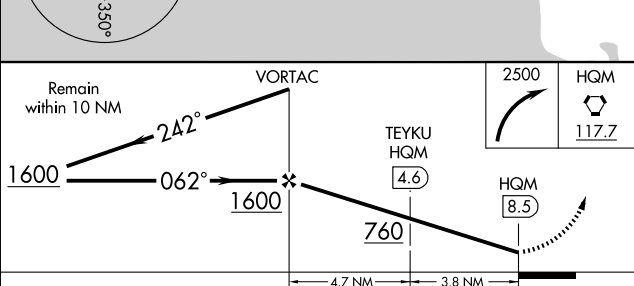
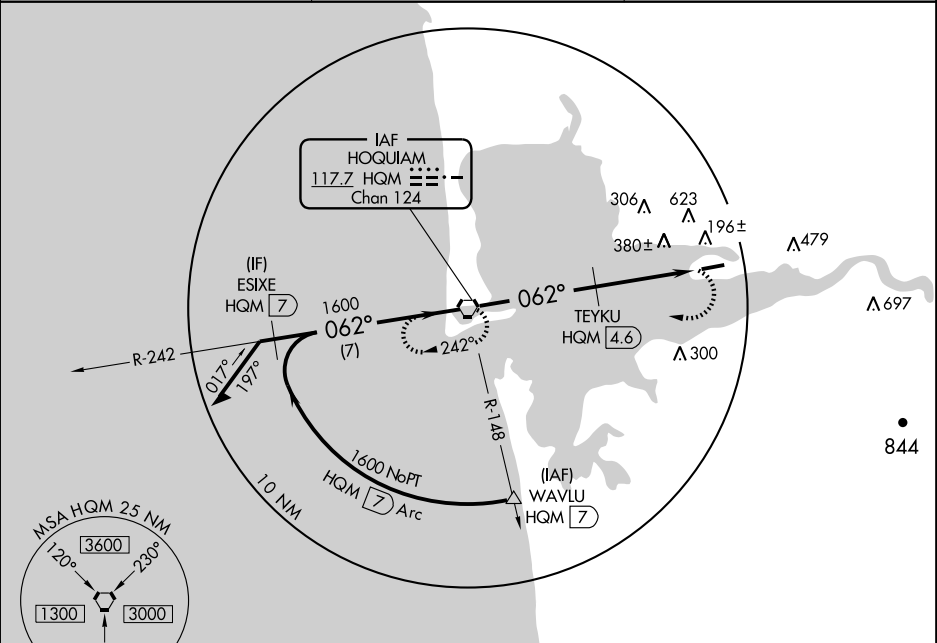
REIL Rwy 6 **1**
HIRL Rwy 6-24 **1**

VORTAC HQM	APP CRS	Rwy Idg	5000
117.7	062°	TDZE	18
Chan 124		Apt Elev	18

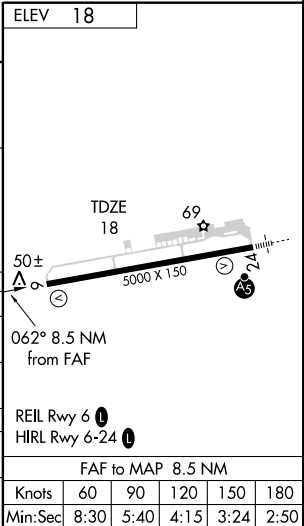
Visibility reduction by helicopters NA.
Circling NA northwest of Rwy 6 and 24.

MISSED APPROACH: Climbing right turn to 2500 direct HQM
VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
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CATEGORY	A	B	C	D
S-6	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
CIRCLING	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
TEYKU FIX MINIMUMS				
S-6	640-1 622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)	
CIRCLING	640-1 622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)	



GPS RWY 12

SOUTHWEST WASHINGTON RGNL (KLS)

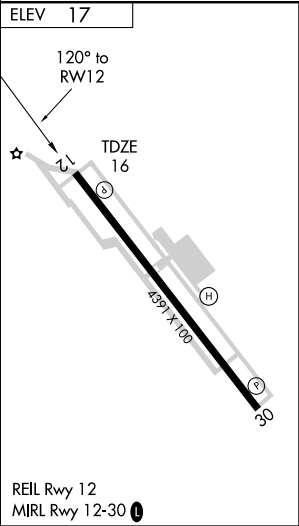
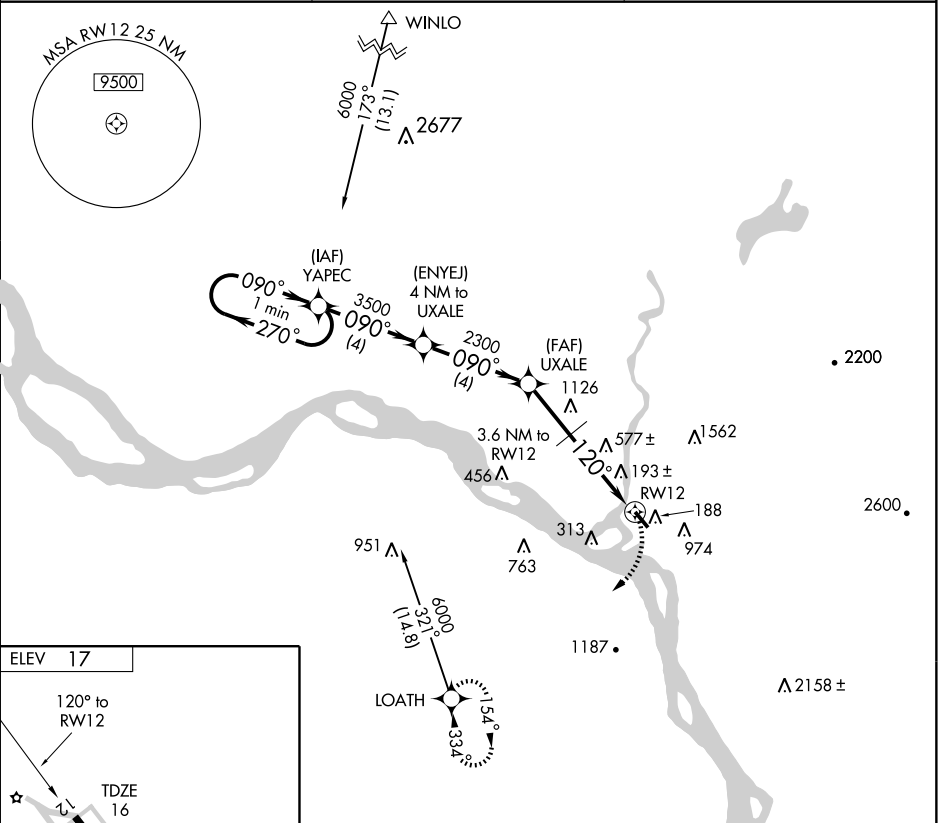
APP CRS	Rwy Idg	4391
120°	TDZE	16
	Apt Elev	17



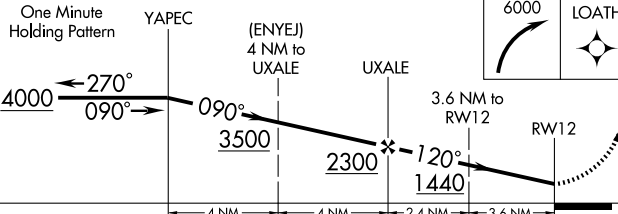
**NA**

Circling not authorized northeast of Rwy 12-30.

MISSED APPROACH: Climbing right turn to 6000 direct LOATH WP and hold.

AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF) 
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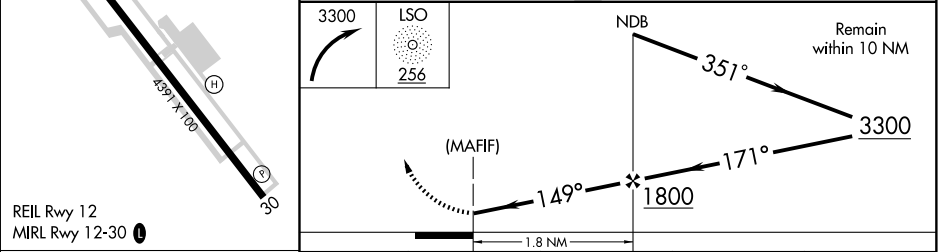
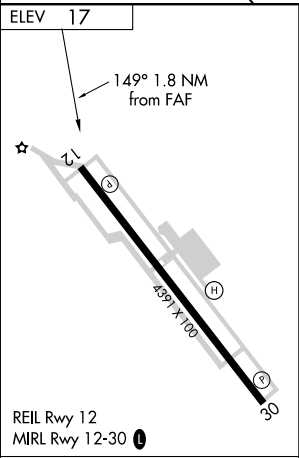
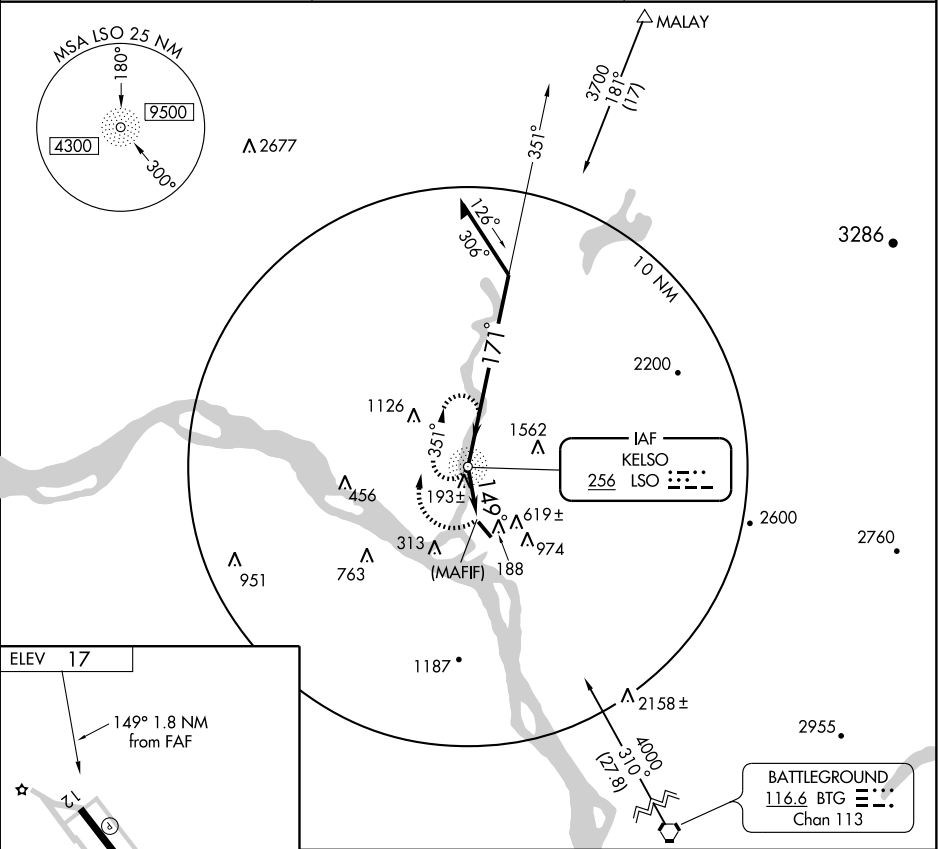
One Minute Holding Pattern					
					
CATEGORY	A	B	C	D	
S-12	960-1¼	944 (1000-1¼)	NA		
CIRCLING	960-1¼	943 (1000-1¼)	NA		

NDB	LSO	APP CRS	Rwy Idg TDZE	N/A
<u>256</u>		<u>149°</u>	Apt Elev	<u>17</u>

NDB or GPS-A
SOUTHWEST WASHINGTON RGNL (KLS)

<p>NA</p> <p>Circling not authorized northeast of Rwy 12-30.</p>	<p>MISSED APPROACH: Climbing right turn to 3300 direct LSO NDB and hold.</p>
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AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF)
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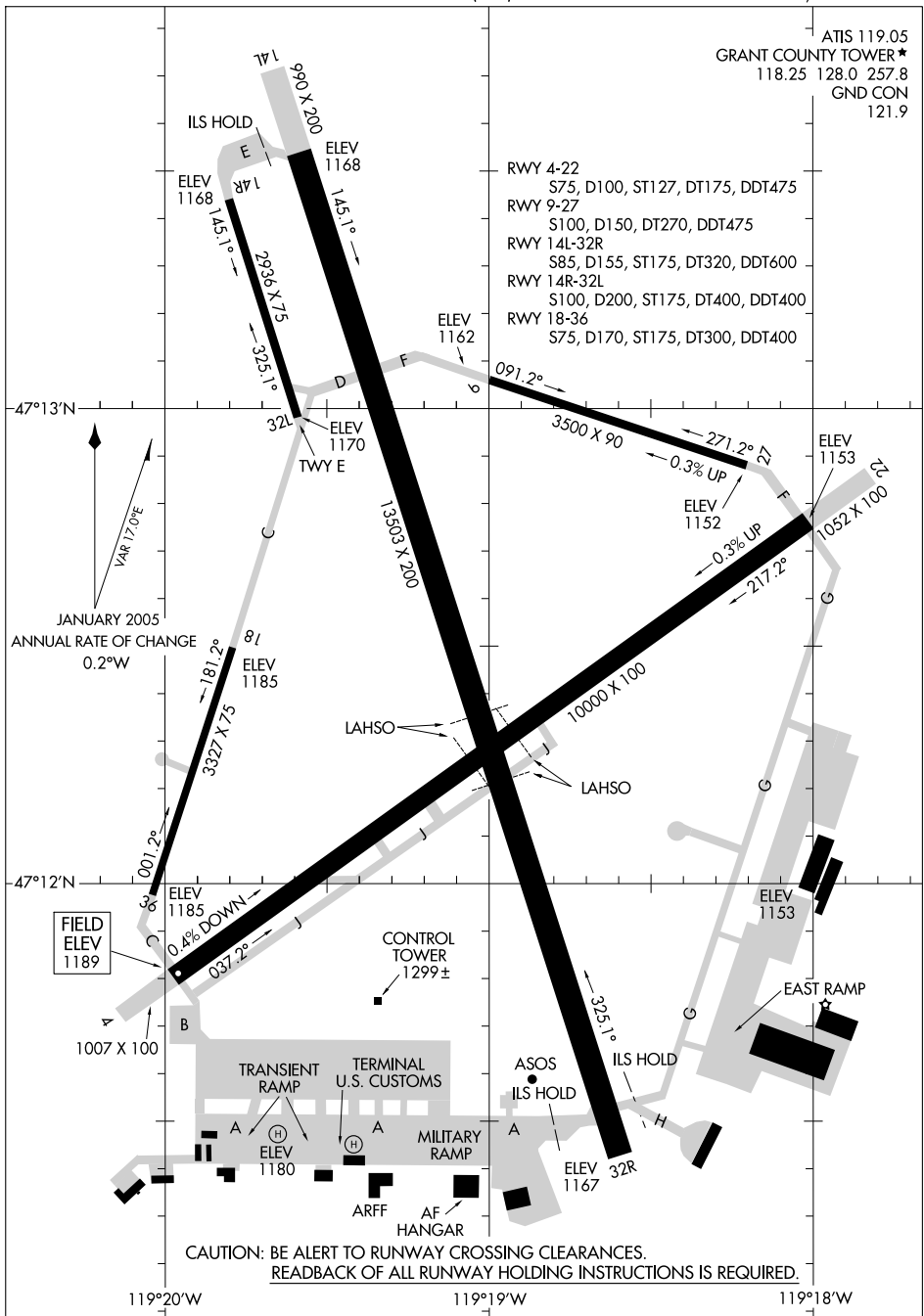
FAF to MAP 1.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1120-1¼ 1103 (1200-1¼)	1120-1½ 1103 (1200-1½)	NA	
Min:Sec	1:48	1:12	0:54	0:43	0:36					

AIRPORT DIAGRAM

AL-961 (FAA)


MOSES LAKE/GRANT COUNTY INTL (MWH)

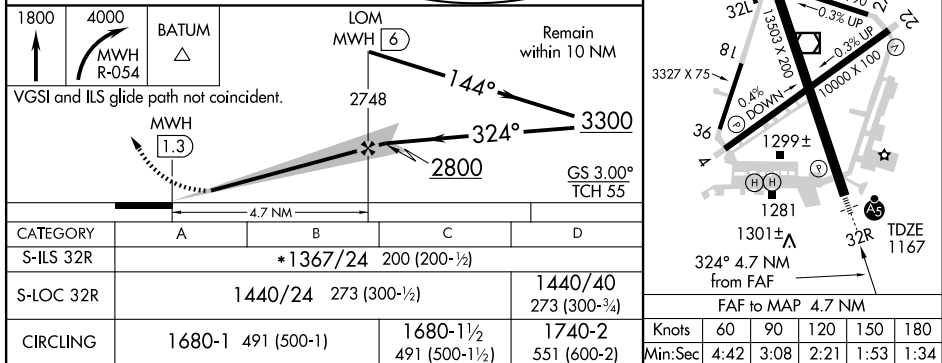
MOSES LAKE, WASHINGTON



NW-1. 22 OCT 2009 to 19 NOV 2009

ILS or LOC RWY 32R
MOSES LAKE/GRANT COUNTY INTL (MWH)

<p>MALSR</p> 	<p>MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 via MWH R-054 to BATUM INT/MWH 9.8 DME and hold, continue climb-in-hold to 4000.</p>
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MOSES THREE DEPARTURE

SL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON

ATIS 119.05

GND CON


121.9

GRANT COUNTY TOWER ★

118.25 (CTAF) 128.0 257.8


GRANT COUNTY DEP CON ★

126.4 379.95

WENATCHEE
111.0 EAT 
Chan 47
N47°23.98' - W120°12.65'


L-13



EPHRATA
112.6 EPH 
Chan 73
N47°22.68' - W119°25.44'


L-13, H-1



SPOKANE
115.5 GEG 
Chan 102
N47°33.90' - W117°37.61'


L-13, H-1



MOSES LAKE
115.0 MWH 
Chan 97
N47°12.65' - W119°19.01'


L-13, H-1




ELLENSBURG
117.9 ELN 
Chan 126
N47°01.46' - W120°27.51'

L-13, H-1




YAKIMA
116.0 YKM 
Chan 107
N46°34.22' - W120°26.68'

L-13, H-1

PASCO
108.4 PSC 
Chan 21
N46°15.78' - W119°06.94'

L-13



WALLA WALLA
116.4 ALW 
Chan 111
N46°05.22' - W118°17.55'

L-13



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 5000' or ATC assigned altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for 1 minute after departure, maintain runway heading, or ATC assigned heading to 6000', then climbing right turn to filed altitude, direct MWH VOR/DME, then via assigned fix/route.

NW-1, 22 OCT 2009 to 19 NOV 2009

LOM MW 408	APP CRS 324°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185	MOSES LAKE/ GRANT COUNTY INTL (MWH)	
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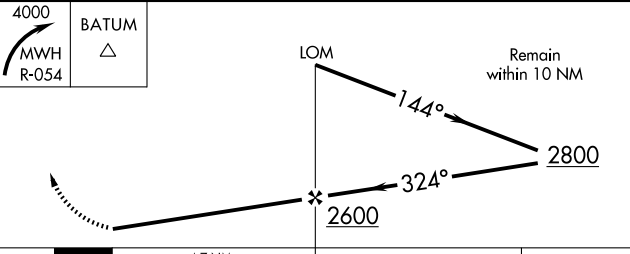
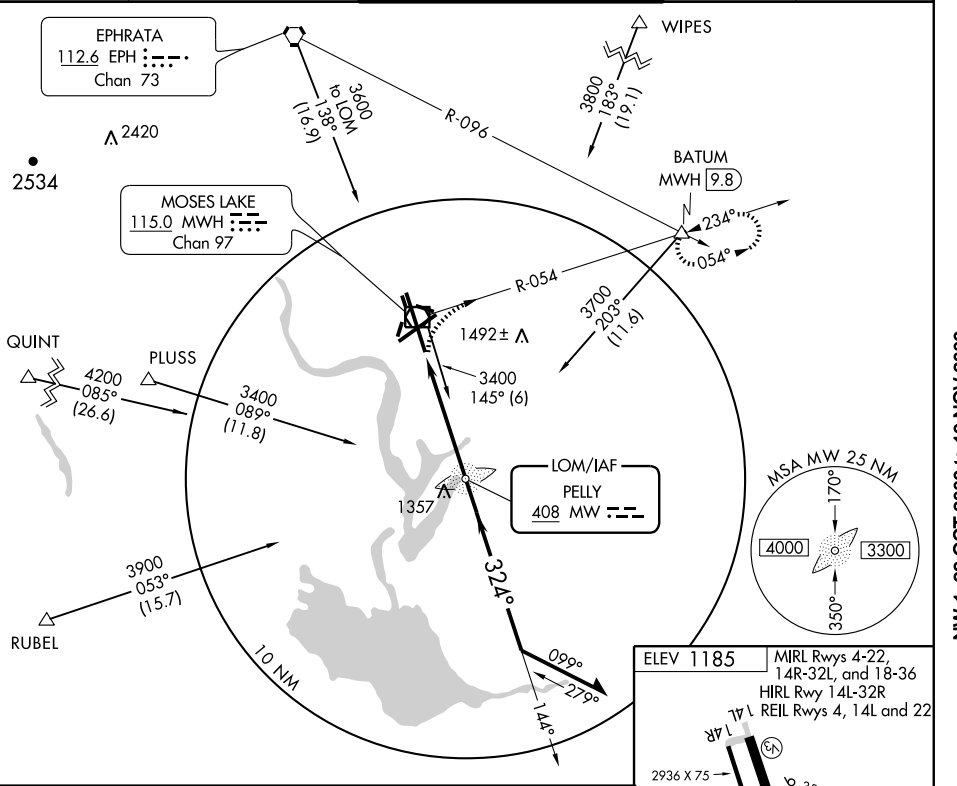
▼

▲

MALSR

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-32R	1680/40	516 (500-¾)	1680/50 516 (500-1)	1680-1½ 516 (500-1½)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)

ELEV 1185

MIRL Rwy 4-22, 14R-32L, and 18-36
HIRL Rwy 14L-32R
REIL Rwy 4, 14L and 22

Detailed approach chart for RWY 32R. It shows the 4.7 NM scale bar and the 1.0 NM scale bar. The chart also includes the 4.7 NM scale bar and the 1.0 NM scale bar.

FAC to MAP 4.7 NM

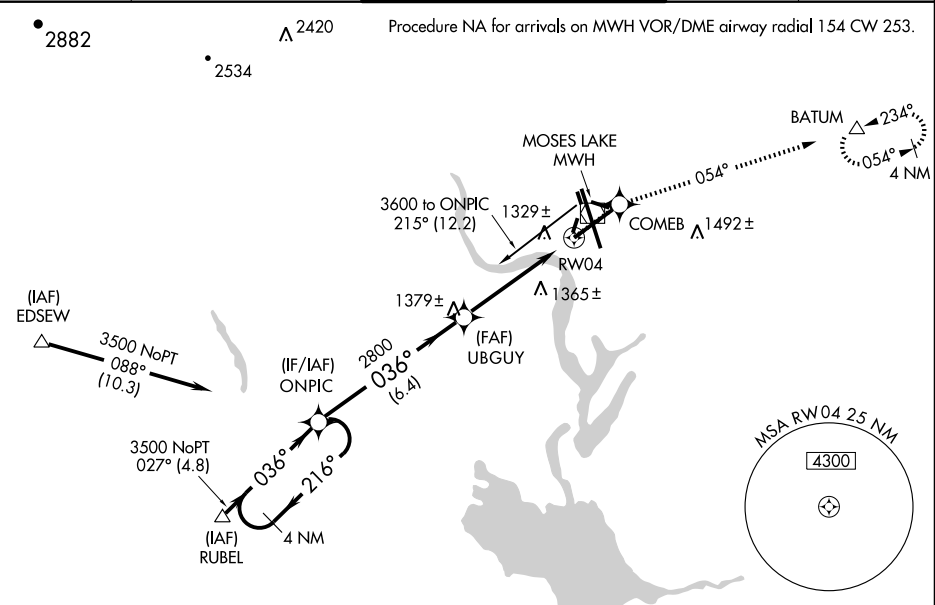
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

WAAS CH 42809 W04A	APP CRS 036°	Rwy Idg TDZE 1189 Apt Elev 1189
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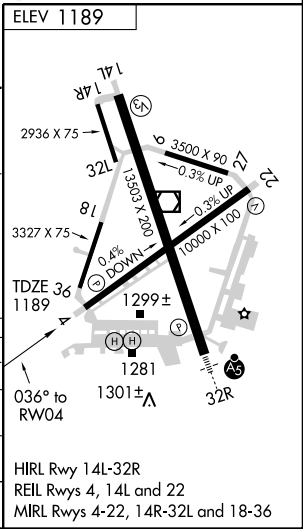
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all Cats and LNAV/VNAV all Cats visibility ¼ mile. Baro-VNAV and VDP NA when using Ephrata altimeter setting.

MISSED APPROACH: Climb to 4000 direct COMEB and via 054° track to BATUM and hold, continue climb-in-hold 4000.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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	ELEV 1189			
	4000 COMEB 054° track BATUM			
4NM Holding Pattern	ONPIC UBGUY RW04			
3500	216° 036° 036° 2800			
GS 3.00° TCH 50	6.4 NM 3.6 NM 1.2 NM			
CATEGORY	A	B	C	D
LPV DA		1439-3/4	250 (300-3/4)	
LNAV/VNAV DA		1636-1 1/2	447 (500-1 1/2)	
LNAV MDA	1620-1	431 (500-1)	1620-1 1/4 431 (500-1 1/4)	1620-1 1/2 431 (500-1 1/2)
CIRCLING	1660-1	471 (500-1)	1660-1 1/2 471 (500-1 1/2)	1740-2 551 (600-2)

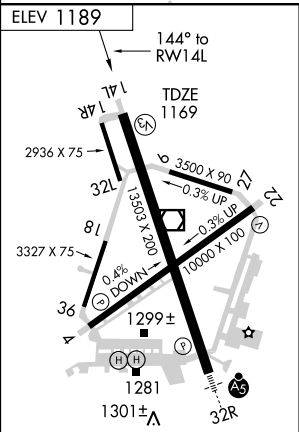
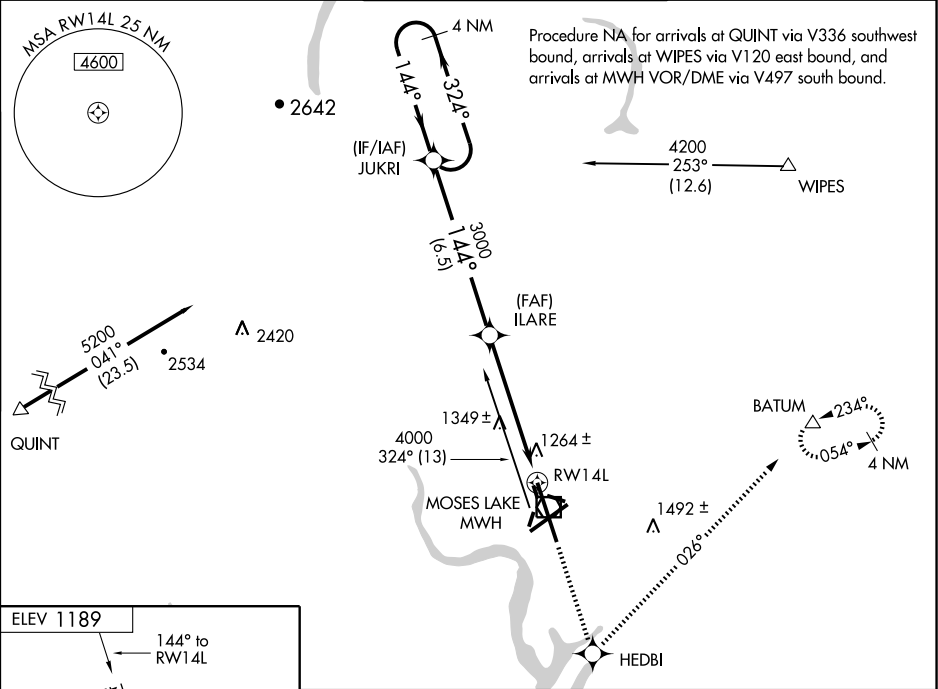


WAAS CH 90509 W14A	APP CRS 144°	Rwy Idg TDZE Apt Elev 1189	13503 1169 1189
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RNAV (GPS) RWY 14L
MOSES LAKE/ GRANT COUNTY INTL (MWH)

▼ ▲	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all CATs and LNAV/VNAV all CATs visibility ½ mile.	MISSED APPROACH: Climb to 4000 direct HEDBI and via 026° track to BATUM and hold, continue climb-in-hold 4000.
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ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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REIL Rwy 4, 14L and 22
HIRL Rwy 14L-32R
MIRL Rwy 4-22, 14R-32L, and 18-36

4NM Holding Pattern		JUKRI	* LNAV only		4000	HEDBI	BATUM
4000		324°	144°	144°	3000	026° track	△
GS 3.00° TCH 52		6.5 NM	4.3 NM	1.2 NM	RW14L		
CATEGORY	A	B	C	D			
LPV DA	1419-¾		250 (300-¾)				
LNAV/VNAV DA	1622-1½		453 (500-1½)				
LNAV MDA	1600-1	431 (500-1)	1600-1¼ 431 (500-1¼)	1600-1½ 431 (500-1½)			
CIRCLING	1660-1	471 (500-1)	1660-1½ 471 (500-1½)	1740-2 551 (600-2)			

WAAS CH 70410 W22A	APP CRS 216°	Rwy Idg TDZE Apt Elev	10000 1166 1189
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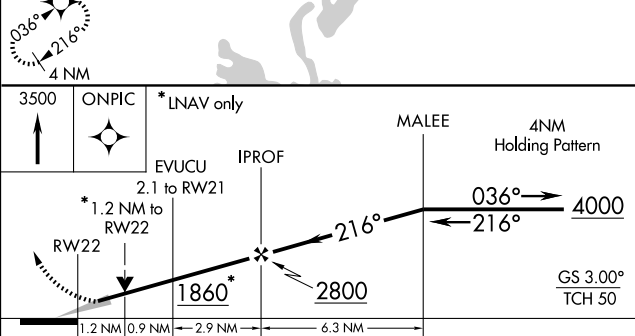
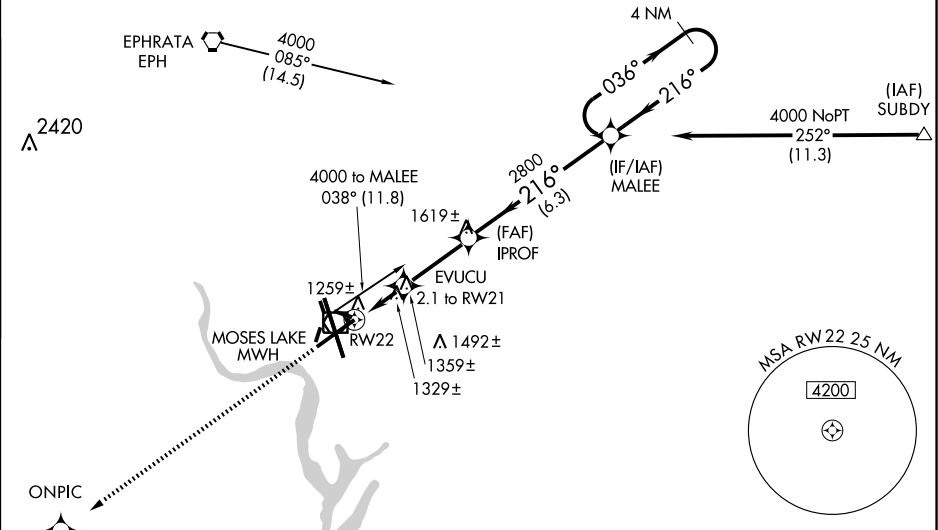
RNAV (GPS) RWY 22
MOSES LAKE/ GRANT COUNTY INTL (MWH)

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LNAV/VNAV all Cats and LNAV Cat D visibility 1/4 mile.

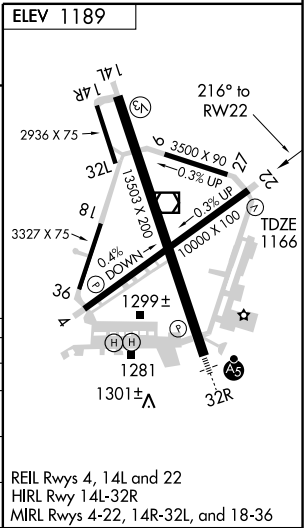
MISSSED APPROACH: Climb to 3500 direct ONPIC and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals at EPH VORTAC via V120 westbound.




CATEGORY	A	B	C	D
LPV DA	1416-1	250 (300-1)		
LNAV/VNAV DA	1529-1 1/4	363 (400-1 1/4)		
LNAV MDA	1580-1 414 (500-1)	1580-1 1/4 414 (500-1 1/4)		
CIRCLING	1660-1 471 (500-1)	1660-1 1/2 471 (500-1 1/2)	1740-2 551 (600-2)	

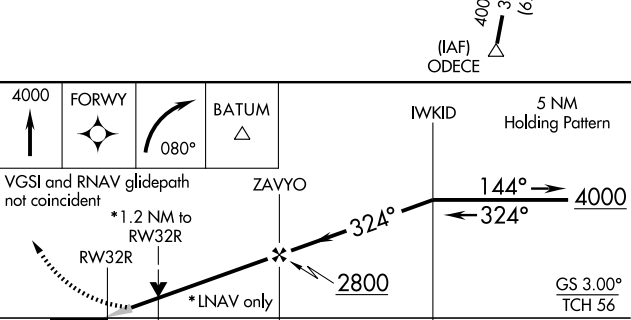
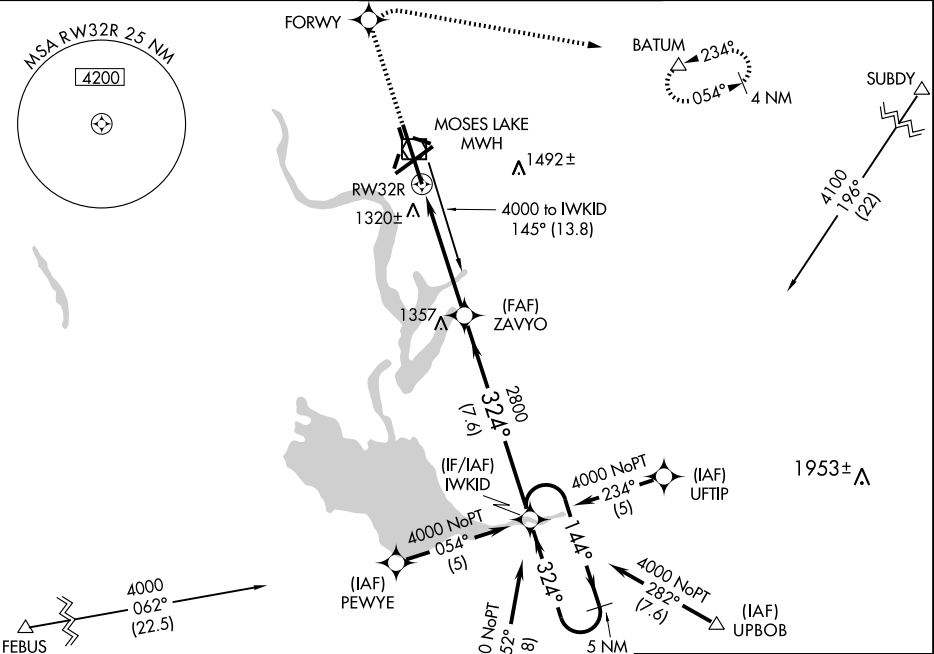


WAAS CH 77799 W32A	APP CRS 324°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185
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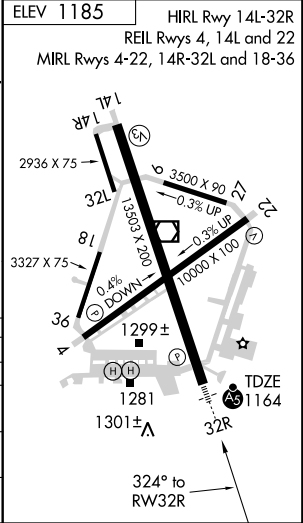
RNAV (GPS) RWY 32R
MOSES LAKE/GRANT COUNTY INTL (MWH)

▼ DME/DME RNP-0.3 NA. Baro-VNAV NA below -17°C (1°F). For inoperative MALSR increase LPV alt Cats visibility to RVR 4000, and LNAV Cat D visibility to 1½.	MALSR 	MISSED APPROACH: Climb to 4000 direct FORWY and right turn via 080° track to BATUM and hold, continue climb-in-hold to 4000.
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ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		1414/24	250 (300-½)	
LNAV/VNAV DA		1667/60	503 (500-1¼)	
LNAV MDA	1620/24	456 (500-½)	1620/40 456 (500-¾)	1620/50 456 (500-1)
CIRCLING		1680-1¾ 495 (500-1¼)		1740-2 555 (600-2)

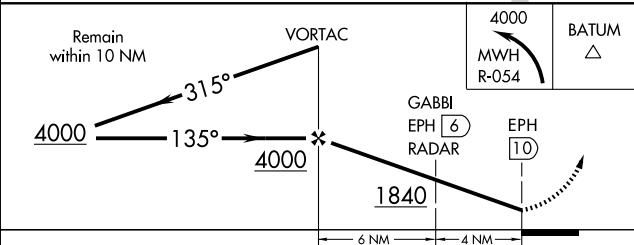
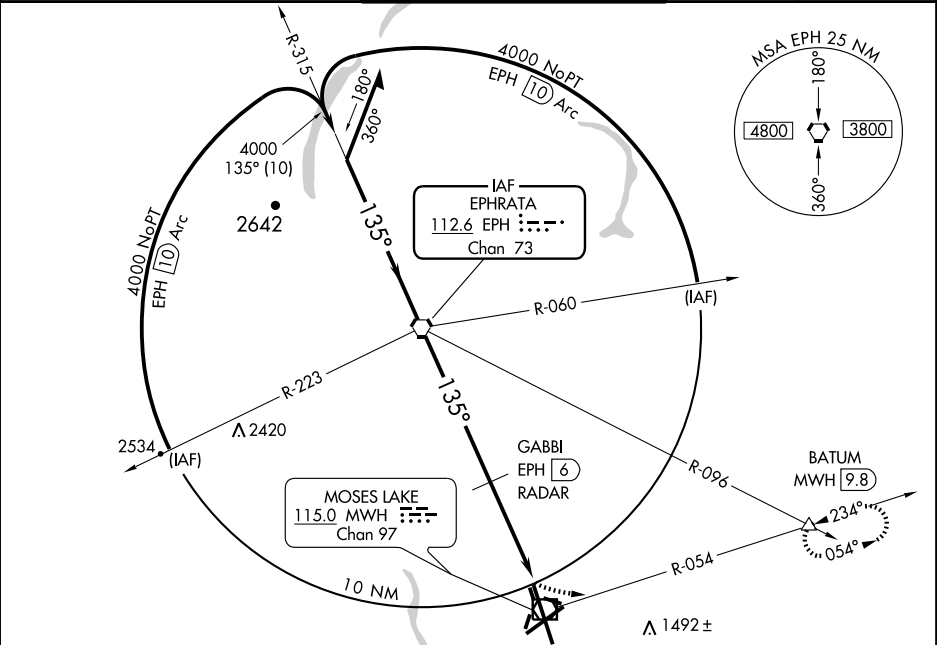


VORTAC EPH 112.6 Chan 73	APP CRS 135°	Rwy Idg 13503 TDZE 1166 Apt Elev 1185
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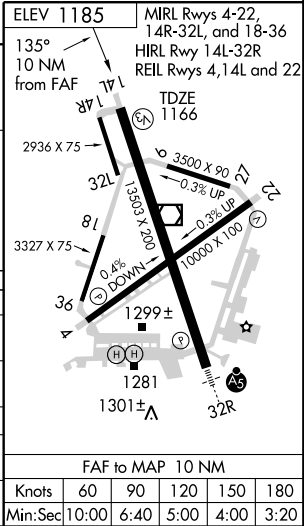
VOR-1 RWY 14L
MOSES LAKE/GRANT COUNTY INTL (MWH)

MISSSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-14L	1840-1 674 (700-1)		1840-2 674 (700-2)	1840-2 1/4 674 (700-2 1/4)
CIRCLING	1840-1 655 (700-1)		1840-1 3/4 655 (700-1 3/4)	1840-2 655 (700-2)
GABBI DME or RADAR MINIMUMS				
S-14L	1640-1 474 (500-1)		1640-1 1/4 474 (500-1 1/4)	1640-1 1/2 474 (500-1 1/2)
CIRCLING	1680-1 495 (500-1)		1680-1 1/2 495 (500-1 1/2)	1740-2 555 (600-2)

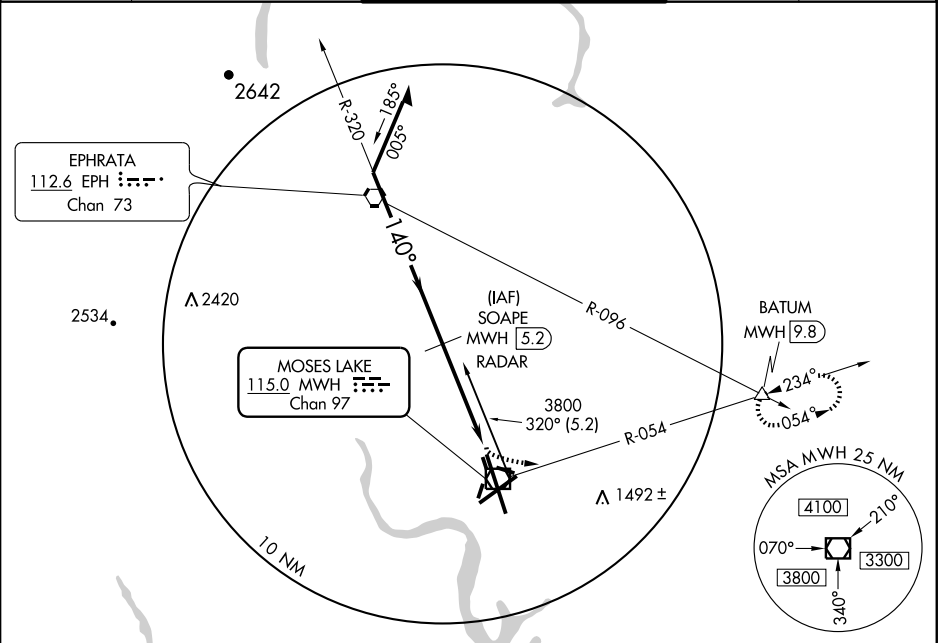


VOR/DME MWH	APP CRS	Rwy Idg	13503
115.0	140°	TDZE	1166
Chan 97		Apt Elev	1185

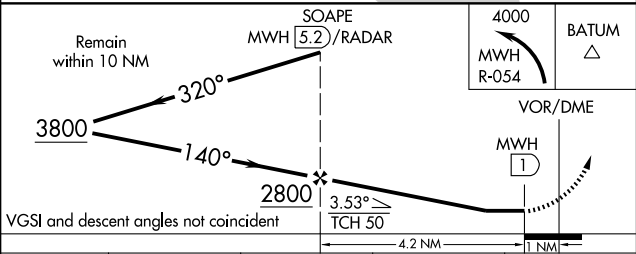
VOR-3 RWY 14L
MOSES LAKE/ GRANT COUNTY INTL (MWH)

MISSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

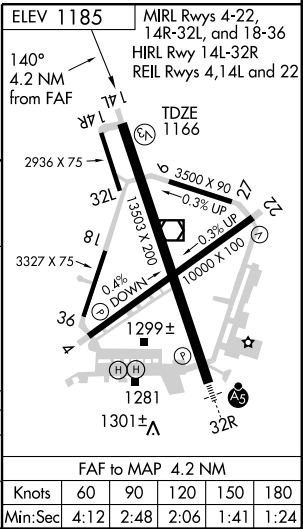
ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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RADAR or DME REQUIRED



CATEGORY	A	B	C	D
S-14L	1620-1 454 (500-1)		1620-1½ 454 (500-1½)	1620-1½ 454 (500-1½)
CIRCLING	1680-1 495 (500-1)		1680-1½ 495 (500-1½)	1740-2 555 (600-2)



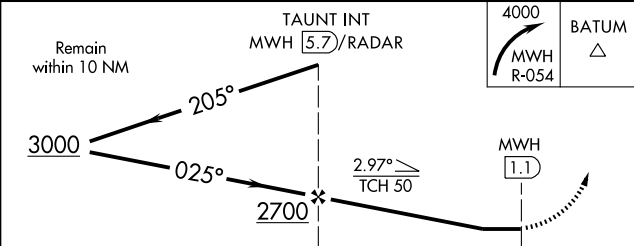
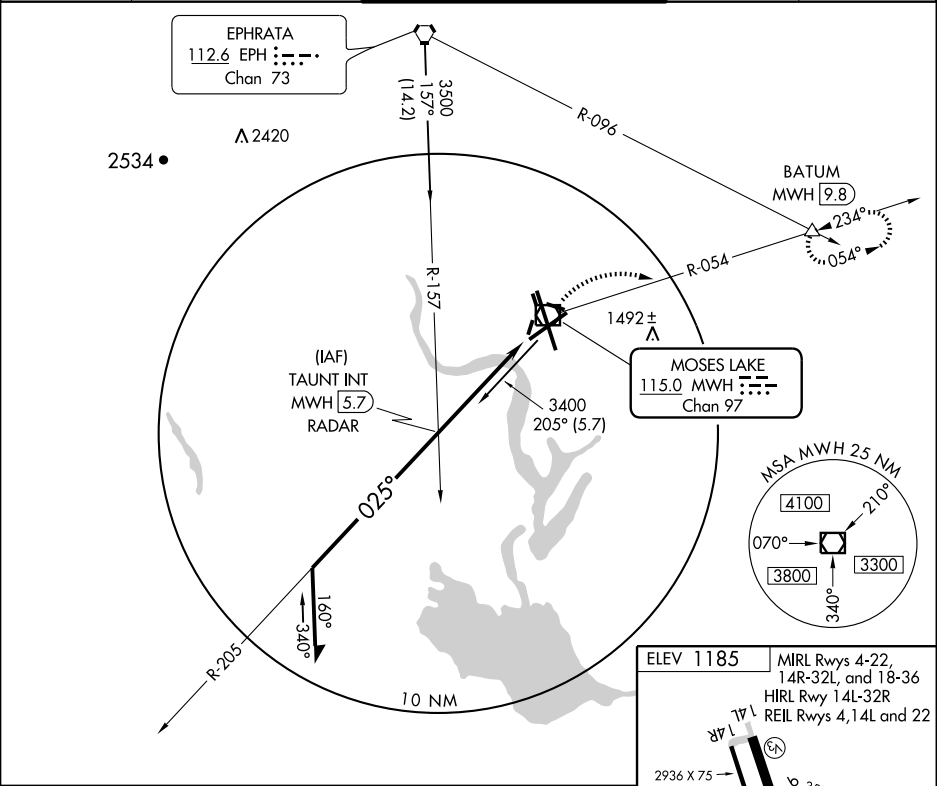
VOR RWY 4

MOSES LAKE/ GRANT COUNTY INTL (MWH)

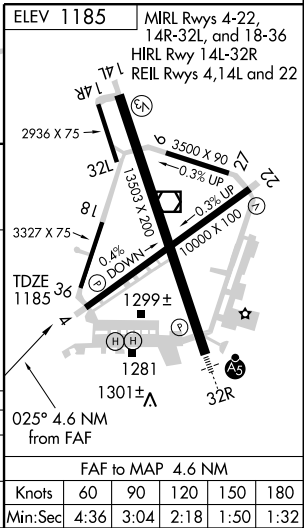
VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	025°	TDZE	1185
Chan 97		Apt Elev	1185

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-4	1620-1	435 (500-1)	1620-1½ 435 (500-1½)	1620-1½ 435 (500-1½)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)



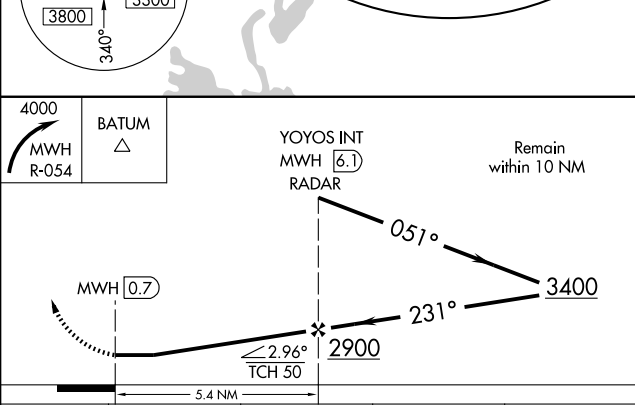
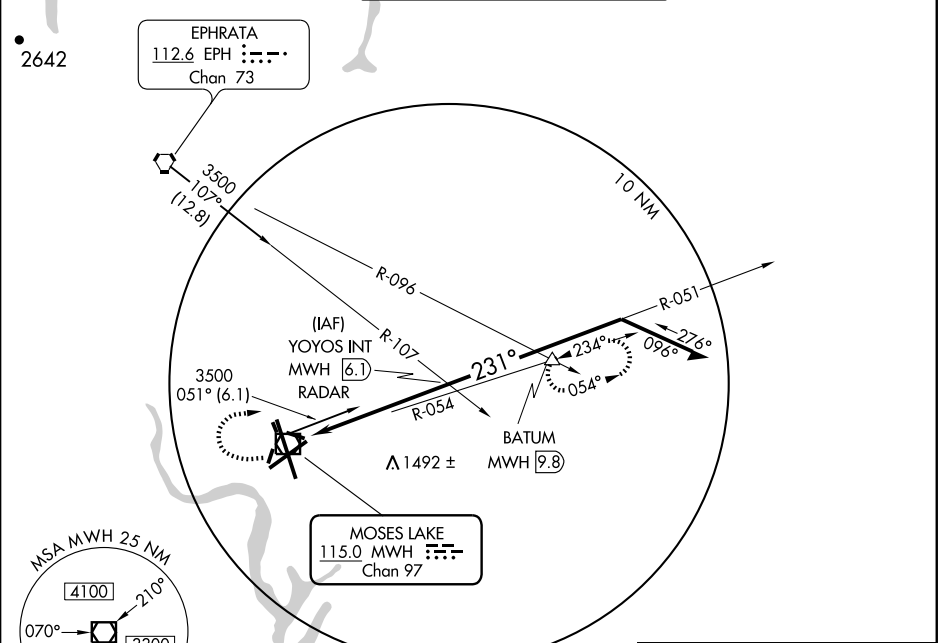
VOR RWY 22

MOSES LAKE/GRANT COUNTY INTL (MWH)

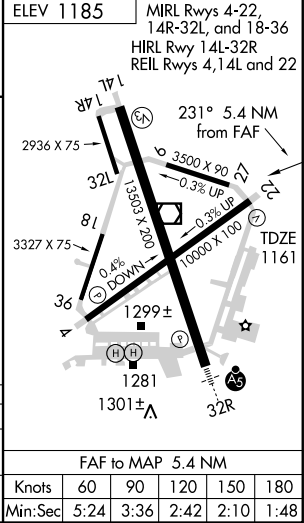
VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	231°	TDZE	1161
Chan 97		Apt Elev	1185

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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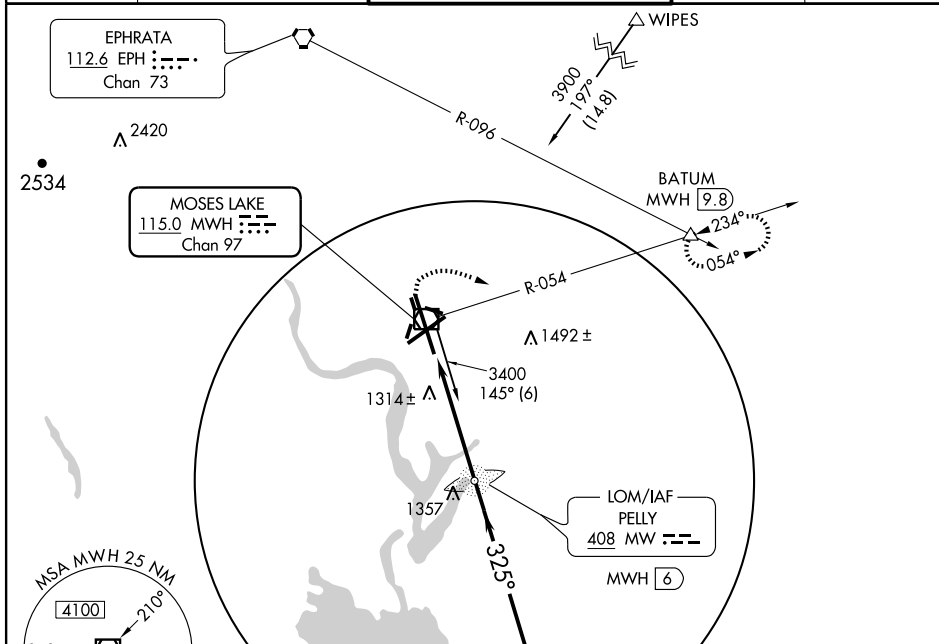
CATEGORY	A	B	C	D
S-22	1760-1 599 (600-1)		1760-1½ 599 (600-1½)	1760-1¾ 599 (600-1¾)
CIRCLING	1760-1 575 (600-1)		1760-1½ 575 (600-1½)	1760-2 575 (600-2)



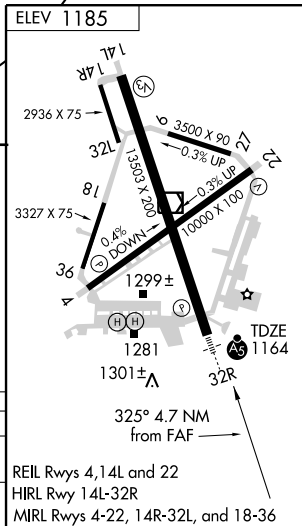
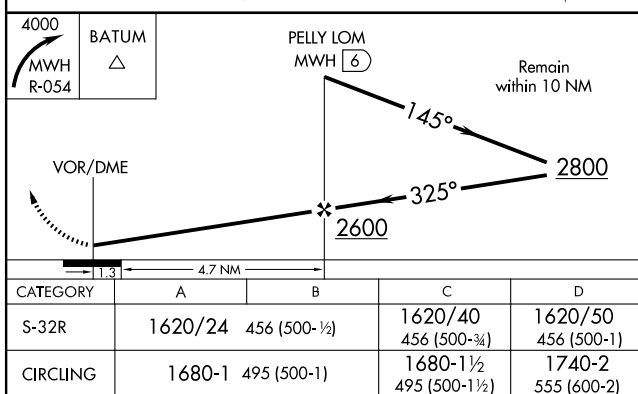
VOR/DME MWH 115.0 Chan 97	APP CRS 325°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185
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VOR RWY 32R
MOSES LAKE/GRANT COUNTY INTL (MWH)

			MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.		
ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 1 128.0 257.8		GND CON 121.9	UNICOM 122.95



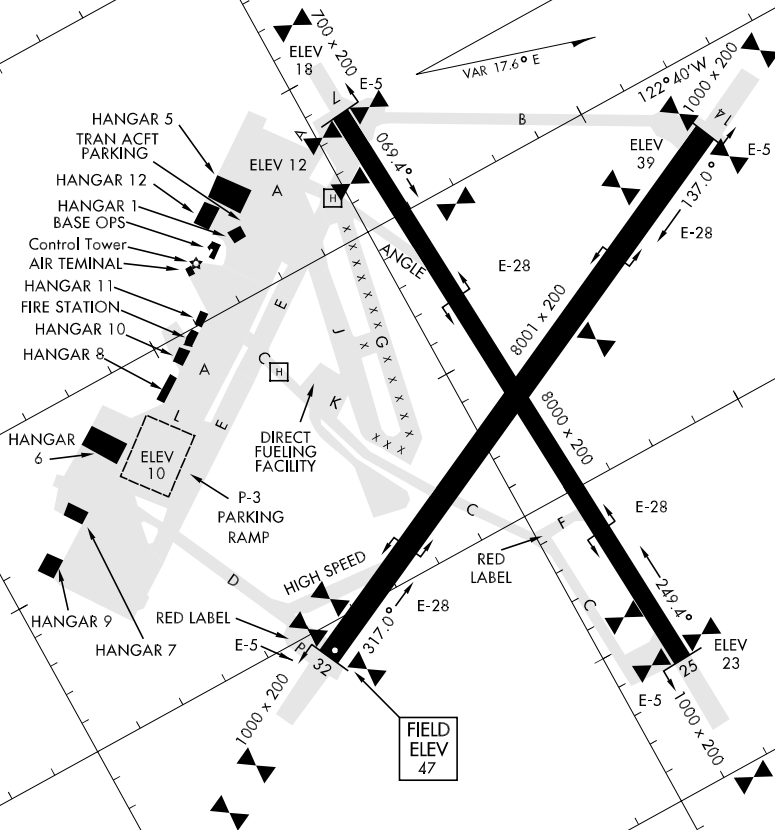
ADF or DME REQUIRED



ATIS 134.15 281.5
WHIDBEY TOWER
127.9 340.2
GND CON
121.75 336.4
CINC DEL
135.1 379.9

APRIL 2008
ANNUAL RATE OF CHANGE
0.2°W

NW-1, 22 OCT 2009 to 19 NOV 2009



RWY 7-25
PCN 45 R/B/W/T
RWY 14-32
PCN 73 R/B/W/T

TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg TDZE Arpt Elev 8000 25 47
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JAL-451 [USN]

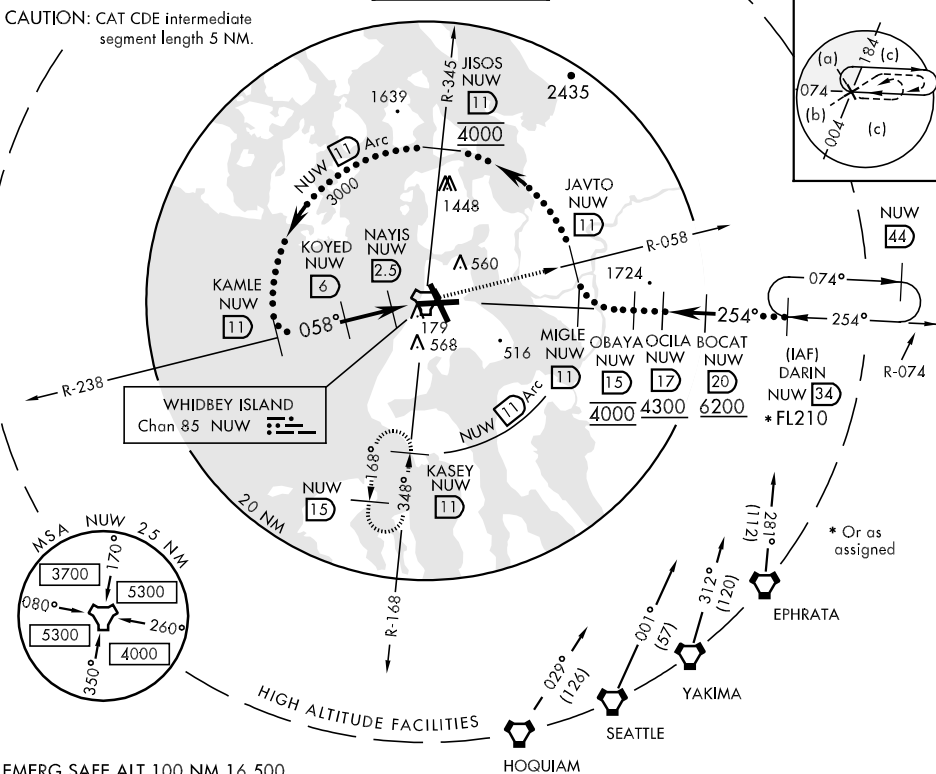
WHIDBEY ISLAND NAS (AULT FLD) (NUW)



MISSED APPROACH: Climb to 3000 via R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

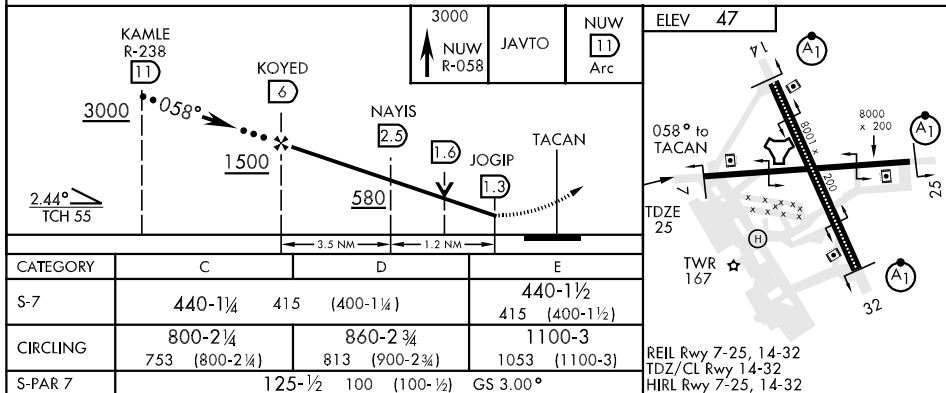
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 118.2 285.65 EAST WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CDE intermediate segment length 5 NM.



NW-1, 22 OCT 2009 to 19 NOV 2009

EMERG SAFE ALT 100 NM 16,500



OAK HARBOR, WASHINGTON

48°21'N-122°39'W

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

TACAN NUW Chan 85	APCH CRS 141°	Rwy Idg 8001 TDZE 39 Arpt Elev 47	JAL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)
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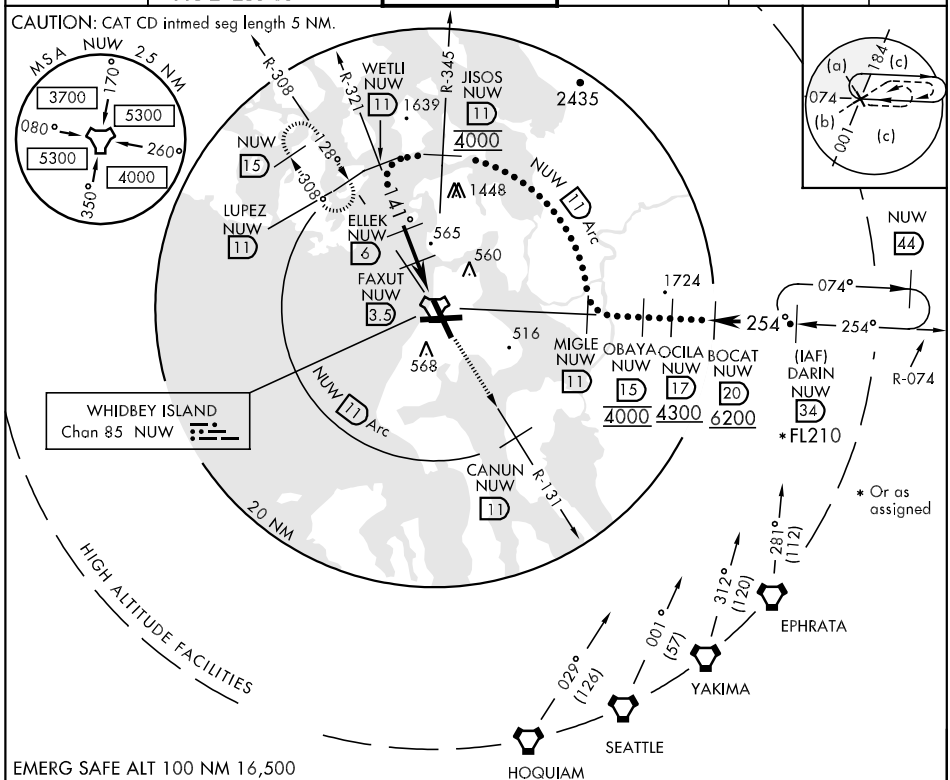
▼ *When ALS inop, increase vis CAT C to 1½ miles, CAT D to 1¾ miles, CAT E to 2 miles.
 ** When ALS inop, increase PAR CAT CDE to ½ mile.



MISSED APPROACH: Climb to 4000 via R-131 to CANUN, then arc SW of NUW TACAN via 11 DME Arc to LUPEZ and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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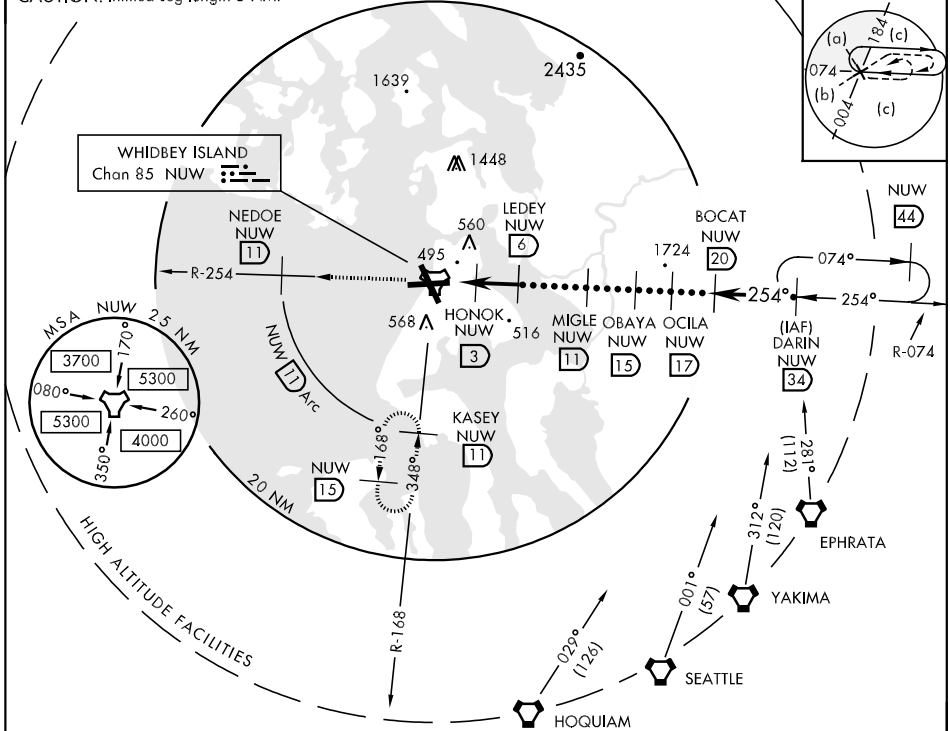
CAUTION: CAT CD intmd seg length 5 NM.



WETLI R-321 11	ELLEK 6	FAXUT 3.5	JOVPO 1.7	TACAN 0.8	ELEV 47 141° to TACAN TDZE 39 8000 x 200 TWR 167 REIL Rwy 7-25, 14-32 TDZ/CL Rwy 14-32 HIRL Rwy 7-25, 14-32
3000	1800	1020			
2.88° TCH 55					
CATEGORY	C	D	E		
S-14 *	620-1 581 (600-1)	620-1¼ 581 (600-1¼)	620-1½ 581 (600-1½)		
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)		
S-PAR 14**	139-¼	100 (100-¼)	GS 3.00°		

TACAN NUW Chan 85	APCH CRS 254°	Rwy Idg 8000 TDZE 28 Arpt Elev 47	JAL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)		
<div>▼ * When ALS inop, increase vis CAT C to 2 miles, CAT D to 2¼ miles, CAT E to 2 ½ miles. ** When ALS inop, increase vis CAT CDE to ¾ miles.</div>			ALSF-1 <div>A1</div>	MISSED APPROACH: Climb to 3000 via R-254 to NEDOE, then arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.		
ATIS 134.15 281.5		WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR

CAUTION: intmed seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500

CATEGORY	C	D	E
S-25 *	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	760-2 732 (800-2)
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)
S-PAR 25 **	228-½	200 (200-½)	GS 3.00°

CATEGORY	C	D	E
S-25 *	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	760-2 732 (800-2)
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)
S-PAR 25 **	228-½	200 (200-½)	GS 3.00°

CATEGORY	C	D	E
S-25 *	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	760-2 732 (800-2)
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)
S-PAR 25 **	228-½	200 (200-½)	GS 3.00°

CATEGORY	C	D	E
S-25 *	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	760-2 732 (800-2)
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)
S-PAR 25 **	228-½	200 (200-½)	GS 3.00°

TACAN NUW Chan 85	APCH CRS 311°	Rwy Idg 8001 TDZE 47 Arpt Elev 47
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JAL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

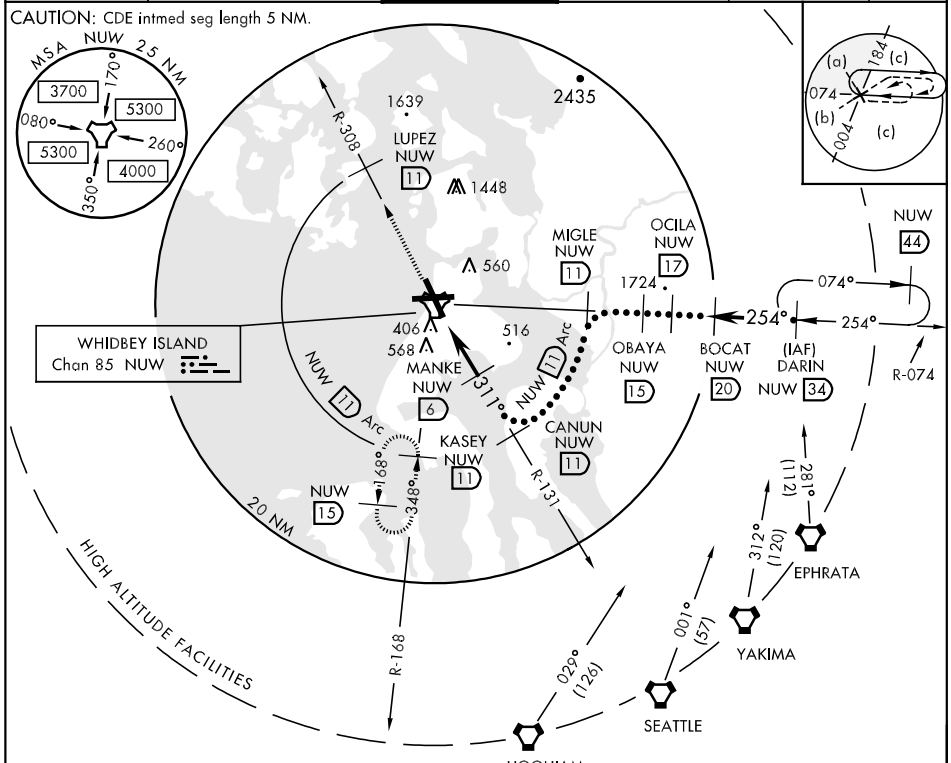
T * When ALS inop, increase vis CAT C to 1¾ miles, CAT D to 2 miles, CAT E to 2¼ miles.
** When ALS inop, increase vis CAT CDE to ¾ mile.



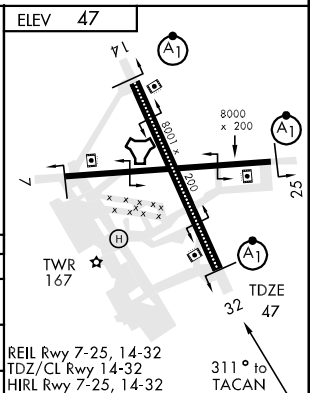
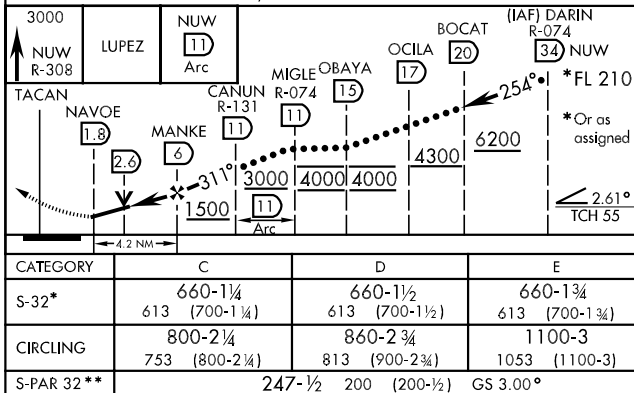
MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then arc W of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS		WHIDBEY APP CON		WHIDBEY TOWER		GND CON		CLNC DEL		ASR/PAR	
134.15	281.5	120.7	270.8	EAST	127.9	340.2	121.75	336.4	135.1		379.9
		118.2	285.65	WEST							

CAUTION: CDE intmed seq length 5 NM.



EMERG SAFE ALT 100 NM 16,500



LOC I-NUW 110.1	APCH CRS 137°	Rwy Idg 8001 TDZE 39 Arpt Elev 47
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AL-451 [USN]

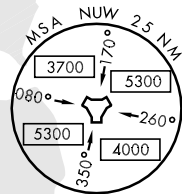
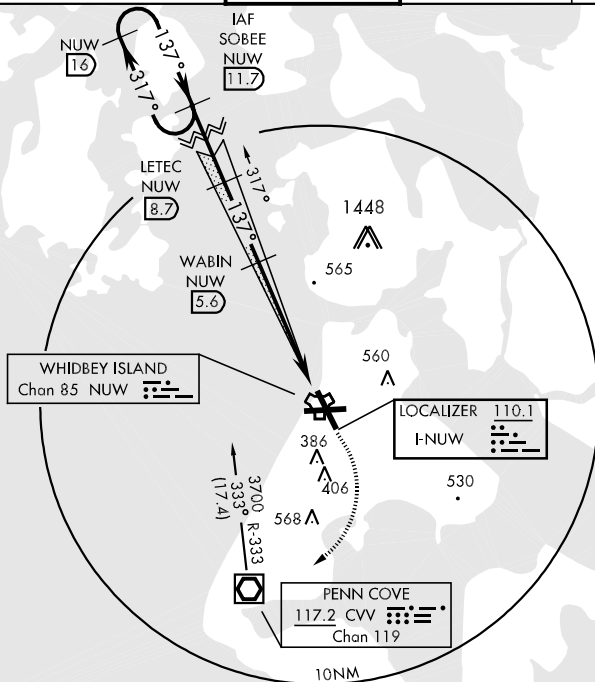
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

▼ * When ALS inop, increase vis CAT ABCDE to $\frac{3}{4}$ mile.
 ** When ALS inop, increase vis CAT ABCDE to 1 mile.
 *** When ALS inop, increase vis CAT ABCDE to $\frac{1}{2}$ mile.



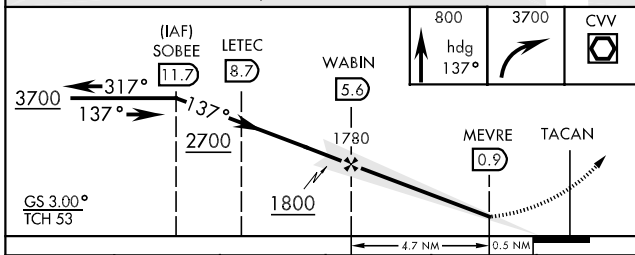
MISSED APPROACH: Climb to 800 via hdg 137°, then climbing right turn to 3700, direct CVV VOR/DME, then via CVV R-333 to SOBEE and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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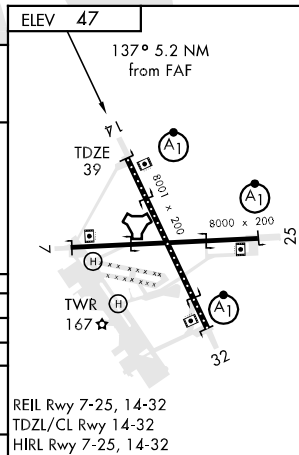


DME REQUIRED

EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D	E
S-ILS 14*	239- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)				
S-LOC 14**	300- $\frac{1}{2}$ 261 (300- $\frac{1}{2}$)	300- $\frac{3}{4}$ 261 (300- $\frac{3}{4}$)			
CIRCLING	780-1 733 (800-1)	800-1 $\frac{1}{4}$ 753 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 753 (800-2 $\frac{1}{4}$)	860-2 $\frac{3}{4}$ 813 (900-2 $\frac{3}{4}$)	1100-3 1053 (1100-3)
S-PAR 14***	139- $\frac{1}{4}$ 100 (100- $\frac{1}{4}$) GS 3.0°				



LOC I-NUW 110.1	APCH CRS 137°	Rwy ldg TDZE Arpt Elev 8001 39 47
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AL-451 [USN]

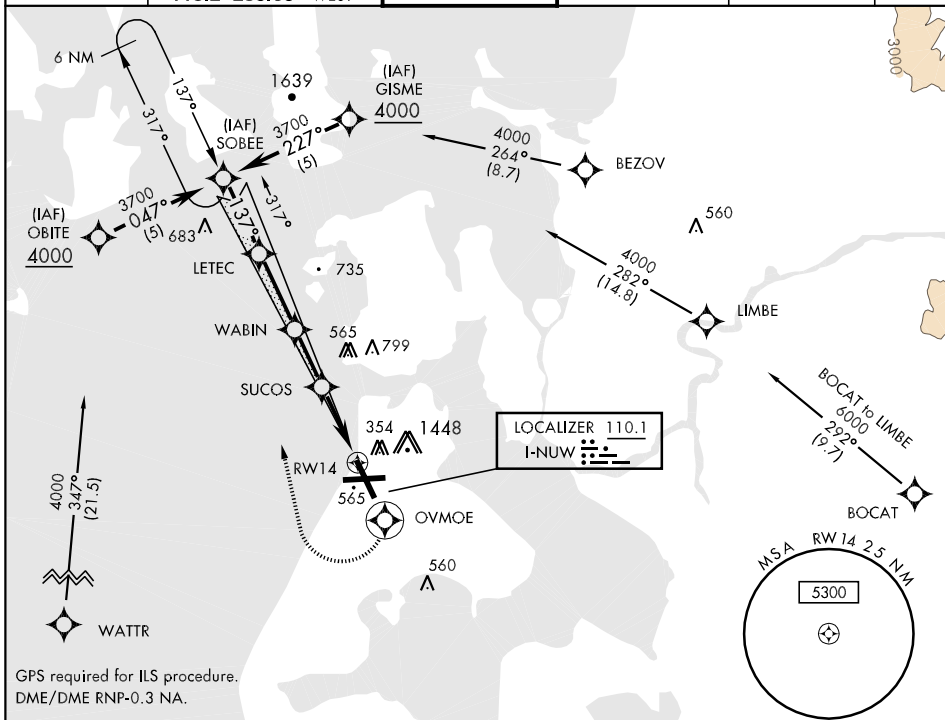
WHIDBEY ISLAND NAS (AULT FLD) (NUW)

▼ * When ALS inop, increase vis ALL CAT to $\frac{3}{4}$ mile.
 ** When ALS inop, increase vis CAT AB to 1 mile, CAT C to $1\frac{1}{4}$ miles, CAT D to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.



MISSED APPROACH: Climb to 3700 direct OVMOE, then climbing right turn direct SOBEE and hold.

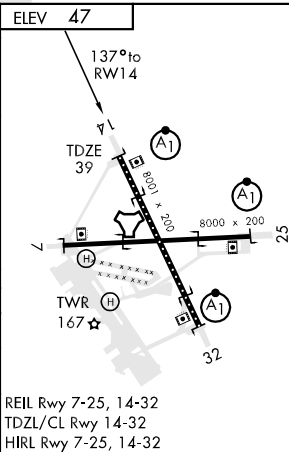
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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GPS required for ILS procedure.
 DME/DME RNP-0.3 NA.

EMERG SAFE ALT 100 NM 16,500

CATEGORY	A	B	C	D	E
S-ILS 14 *	239-½ 200 (200-½)				
LNAV MDA **	460-½	421 (500-½)	460-¾ 421 (500-¾)	460-1 421 (500-1)	460-1¼ 421 (500-1¼)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)



PENN COVE ONE DEPARTURE (CVV1.CVV)

WHIBDEY ISLAND VOR/DME (VOR/DME) (R/VOR/DME) OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
CLNC DEL
135.1 379.9
GND CON
121.75 336.4
WHIBDEY TOWER
127.9 340.2
WHIBDEY DEP CON
120.7 270.8 EAST
118.2 285.65 WEST

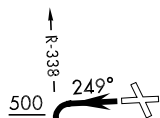
JAL-451 [USN]

Rwy	Knots	60	120	180	240
25 (A) V/V(fpm)		230	460	690	920
25 (B) V/V(fpm)		270	540	810	1080

ATC Climb Rate

- (A) to 2000
- (B) DIGGN transition only to 7000

PENN COVE
117.2 CVV
Chan 119



R-338

500

249°

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APCH CRS	Rwy Idg	8000
249°	TDZE	28
	Arpt Elev	47

AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

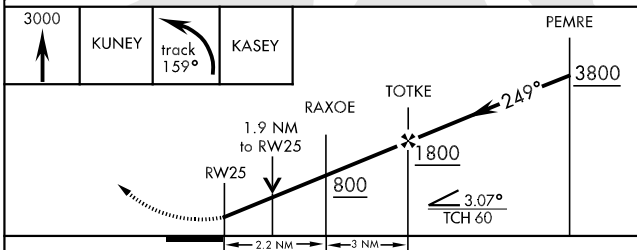
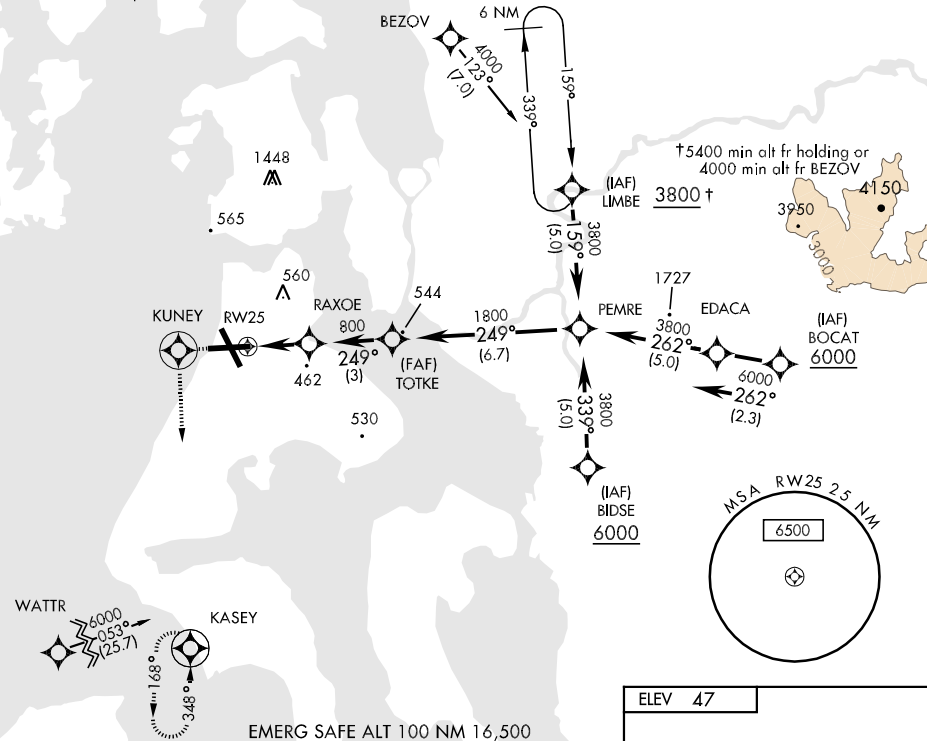
✚ When ALS inop, increase vis CAT AB to 1 mile, CAT C to 2 miles, CAT D to 2¼ miles, CAT E to 2½ miles. PAR to ¾ mile.



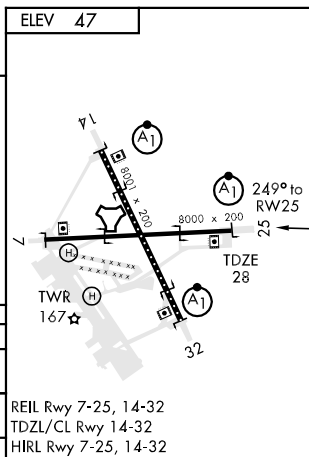
MISSED APPROACH: Climb to 3000 direct KUNEY, then turn left via track 159° to KASEY and hold.

ATIS	WHIDBEY APP CON	WHIDBEY TOWER	GND CON	CLNC DEL	ASR/PAR
134.15 281.5	120.7 270.8 EAST 118.2 285.65 WEST	127.9 340.2	121.75 336.4	135.1 379.9	

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.



CATEGORY	A	B	C	D	E
LNAV MDA*	700-½ 672 (700-½)	700-1½ 672 (700-1½)	700-1½ 672 (700-1½)	700-1¾ 672 (700-1¾)	700-2 672 (700-2)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)
S-PAR 25*	228-½	200	(200-½)	GS 3.00°	



TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg 8000 TDZE 25 Arpt Elev 47
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AL-451 [USN]

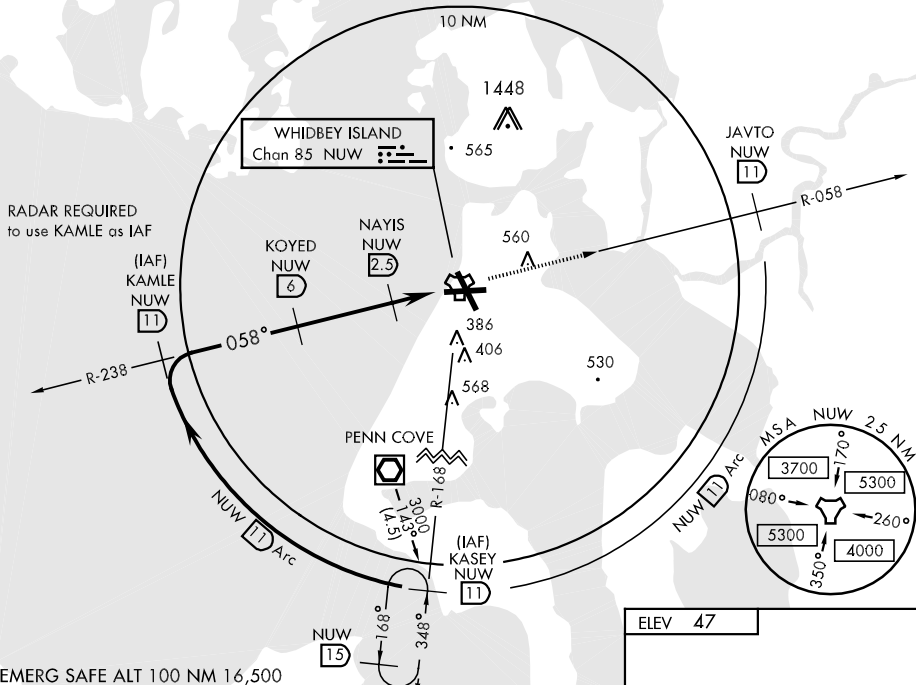
WHIDBEY ISLAND NAS (AULT FLD) (NUW)



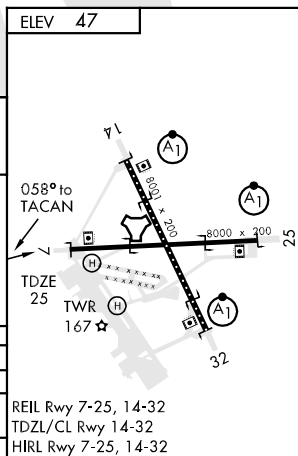
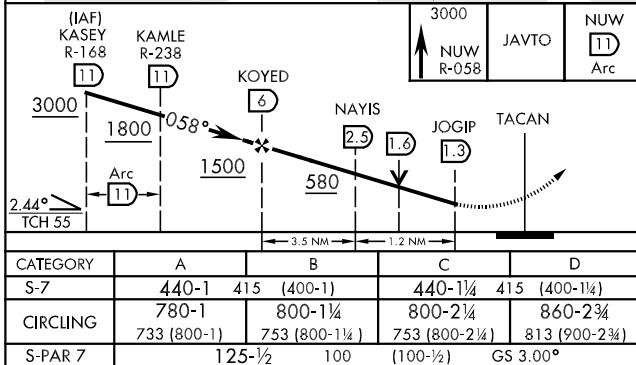
MISSED APPROACH: Climb to 3000 via R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION:
CAT CD intmd seg length 5 NM



EMERG SAFE ALT 100 NM 16,500



TACAN NUW Chan 85	APCH CRS 141°	Rwy ldg 8001 TDZE 39 Arprt Elev 47	AL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)
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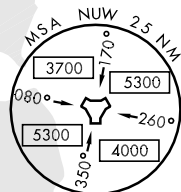
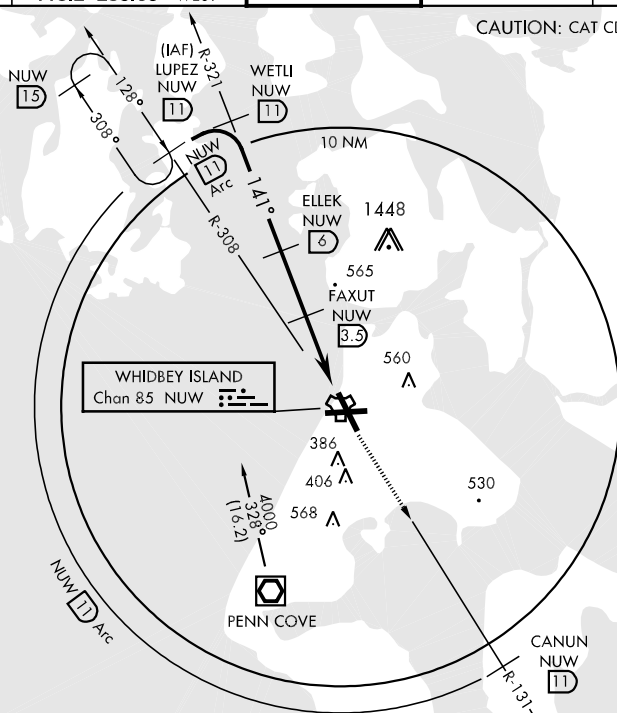
▼ *When ALS inop, increase vis CAT AB to 1 mile,
CAT C to 1½ miles, CAT D to 1¾ miles.
** When ALS inop, increase vis CAT ABCD to ½ mile.



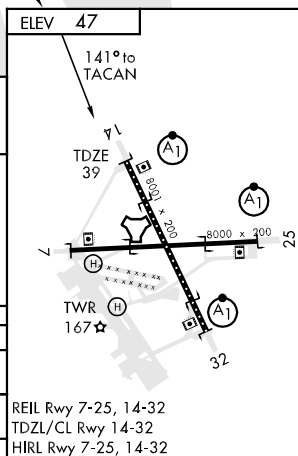
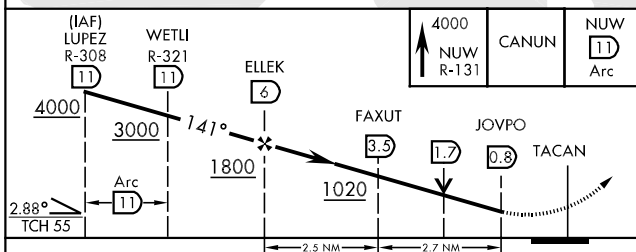
MISSED APPROACH: Climb to 4000 via R-131 to CANUN, then arc SW of NUW TACAN via 11 DME Arc to LUPEZ and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CD intmed seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-14*	620-½ 581 (600-½)	620-1 581 (600-1)	620-1½ 581 (600-1½)	620-2 581 (600-2)
CIRCLING	780-1 733 (800-1)	800-1½ 753 (800-1½)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)
S-PAR 14**	139-¼ 100	(100-¼)	GS 3.00°	

REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

TACAN NUW Chan 85	APCH CRS 254°	Rwy Idg 8000 TDZE 28 Arprt Elev 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (NUW)

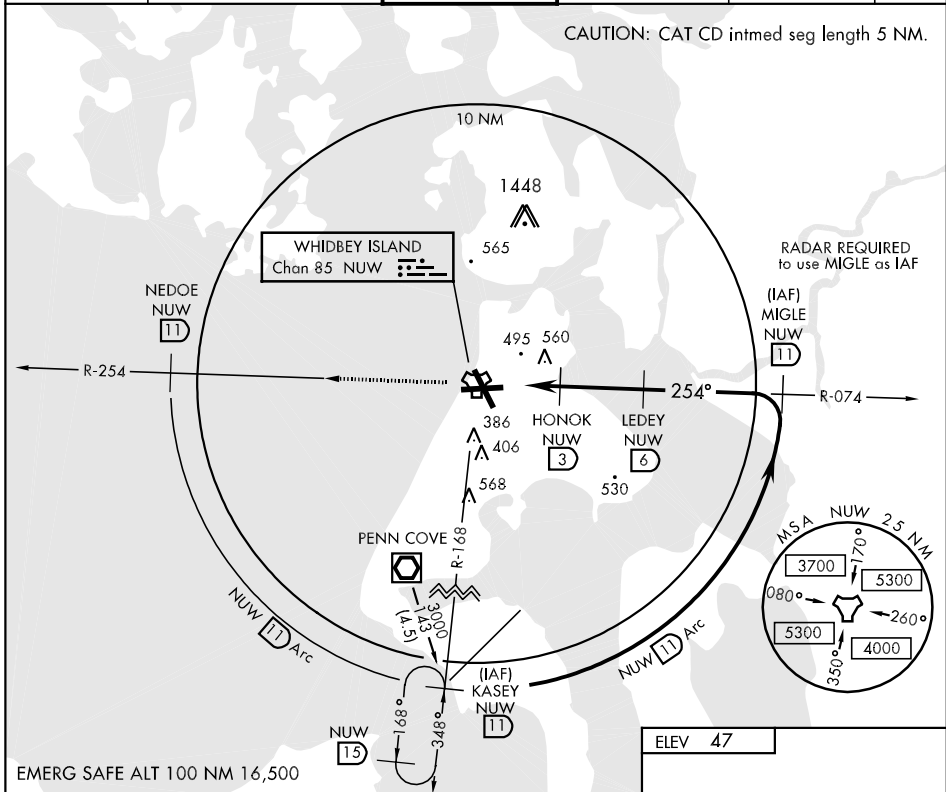
▼ *When ALS inop, increase vis CAT AB to 1 mile,
CAT C to 2 miles, CAT D to 2¼ miles.
**When ALS inop, increase vis CAT ABCD to ¾ mile.



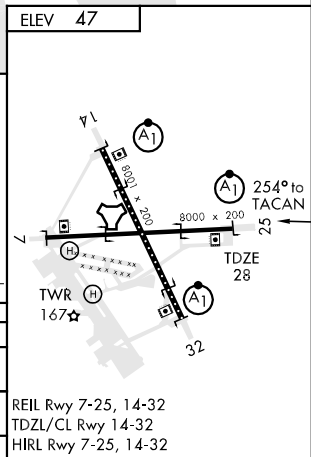
MISSED APPROACH: Climb to 3000 via R-254 to NEDOE, then
arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CD intmd seg length 5 NM.



3000 NUW R-254	NEDOE NUW 11 Arc	LEDEY 6	(IAF) MIGLE R-074 11	(IAF) KASEY R-168 11
TACAN	KIGVE 1.7	HONOK 3	3000	3000
1.3 NM	2.8	840	1500	3.38° TCH 55
CATEGORY	A	B	C	D
S-25 *	760-½ 732 (800-½)	760-1½ 732 (800-1½)	760-1¼ 732 (800-1¼)	760-1¼ 732 (800-1¼)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¼ 813 (900-2¼)
S-PAR 25 **	228-½	200	(200-½)	GS 3.00°



TACAN NUW Chan 85	APCH CRS 311°	Rwy ldg 8001 TDZE 47 Arprt Elev 47	AL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (NUW)
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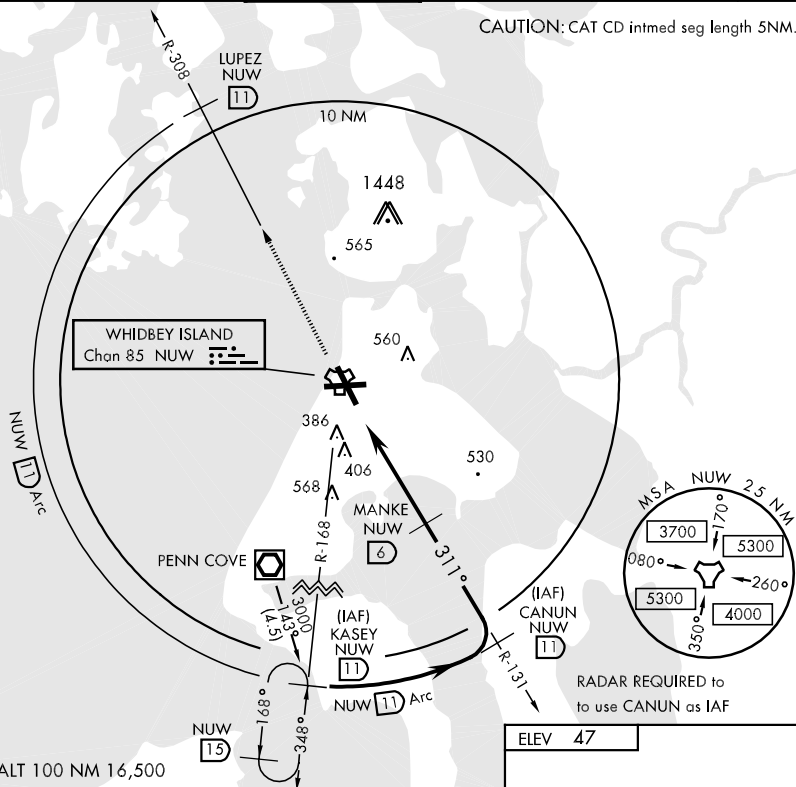
▼ * When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1 ¾ Miles, CAT D to 2 miles.
 ** When ALS inop, increase vis CAT ABCD to ¾ mile.



MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then Arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

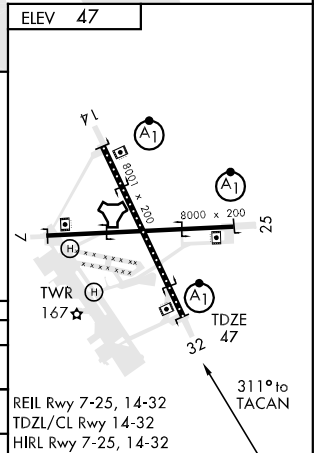
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CD intmd seg length 5NM.



EMERG SAFE ALT 100 NM 16,500

3000 NUW R-308	LUPEZ	NUW 11 Arc	(IAF) CANUN R-131	(IAF) KASEY R-168
TACAN	NAVOE	MANKE	311°	3000
1.3	2.6	6	1800	1500
4.2 NM			Arc 11	2.61° TCH 55
CATEGORY	A	B	C	D
S-32*	660-1/2	613 (700-1/2)	660-1 1/4 613 (700-1 1/4)	660-1 1/2 613 (700-1 1/2)
CIRCLING	780-1 733 (800-1)	800-1 1/4 753 (800-1 1/4)	800-2 1/4 753 (800-2 1/4)	860-2 3/4 813 (900-2 3/4)
S-PAR 32**	247-1/2	200	(200-1/2)	GS 3.00°



APP CRS	Rwy Idg	2758
071°	TDZE	193
	Apt Elev	193

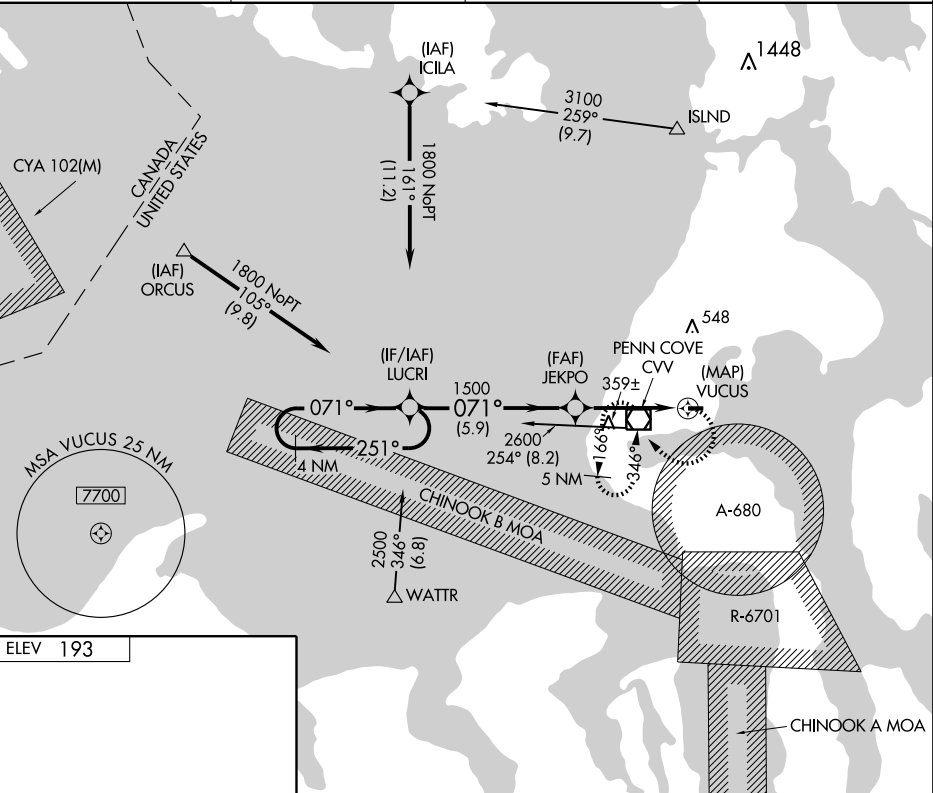
RNAV (GPS) RWY 7

OAK HARBOR/AJ EISENBERG (OKH)

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Circling north of Rwy 7-25 NA at night.
ASR When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing right turn to 3400 direct CVV VOR/DME and hold, continue climb-in-hold to 3400.

AWOS-3 132.775	WHIDBEY ATIS 134.15 281.5	WHIDBEY APP CON 118.2 285.65	UNICOM 122.8 (CTAF)
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ELEV 193

TDZE 193

071° to VUCUS

3265 X 25

0 1.6% UP

25

LURL Rwy 7-25

4 NM Holding Pattern

LUCRI

JEKPO

VUCUS

3400 CVV

1800 251° 071° 1500

3.03° TCH 45

5.9 NM 4 NM 0.1

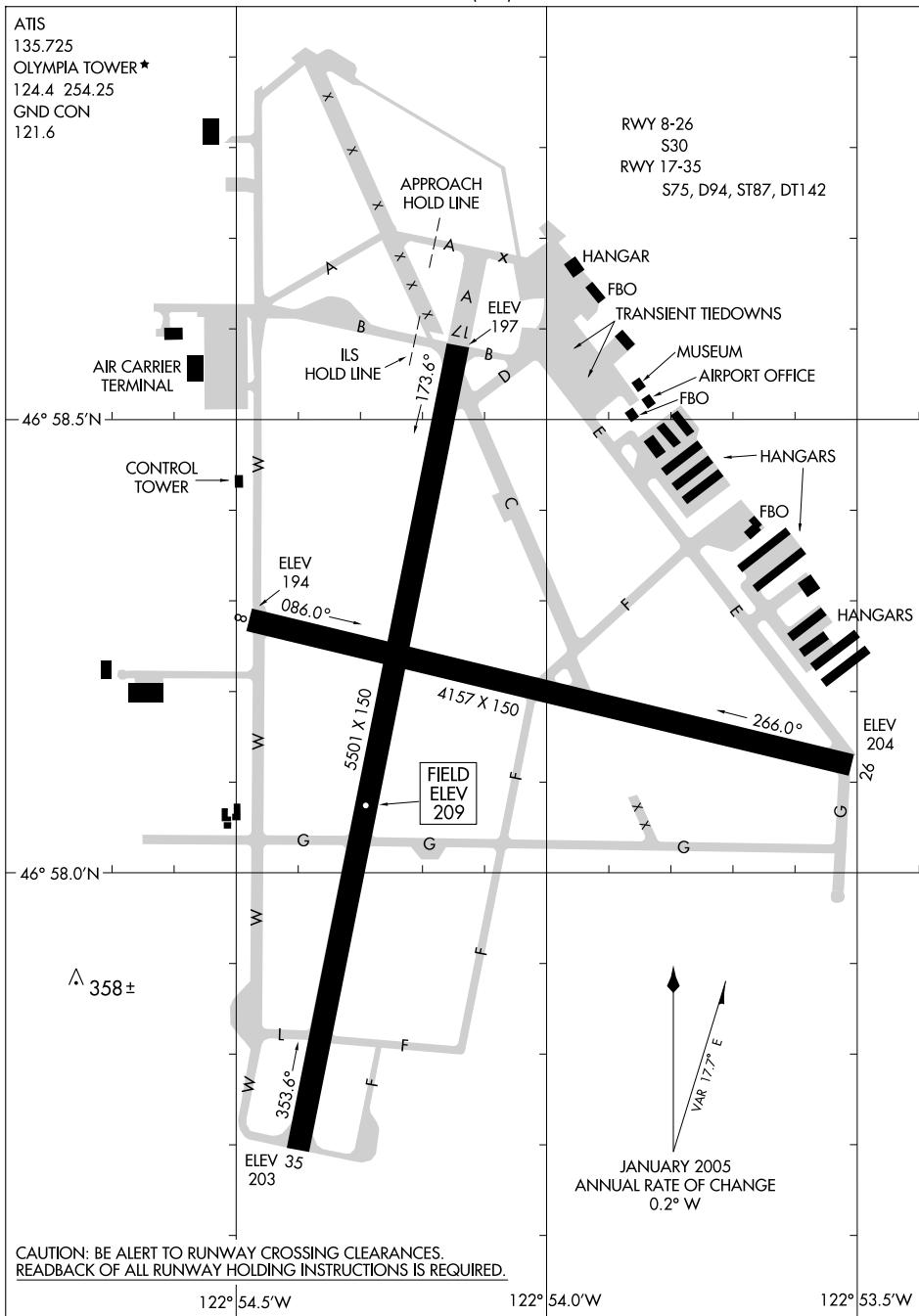
CATEGORY	A	B	C	D
LNAV MDA	620-1	427 (500-1)	NA	
CIRCLING	620-1 427 (500-1)	660-1 467 (500-1)	NA	

NW-1, 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

AL-645 (FAA)

OLYMPIA RGNL (OLM)
OLYMPIA, WASHINGTON



NW-1. 22 OCT 2009 to 19 NOV 2009

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

LOC I-OLM	APP CRS	Rwy Idg	5501
111.9	172°	TDZE	207
		Apt Elev	209

ILS or LOC RWY 17

OLYMPIA RGNL (OLM)

▼ RADAR or DME required. When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase circling visibility Cat D ¼ mile.

▲ For inoperative MALSR, when using Sanderson Field altimeter setting, increase S-ILS 17 visibility to 1 mile.

MALSR

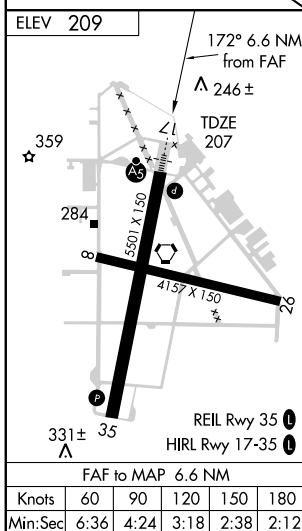
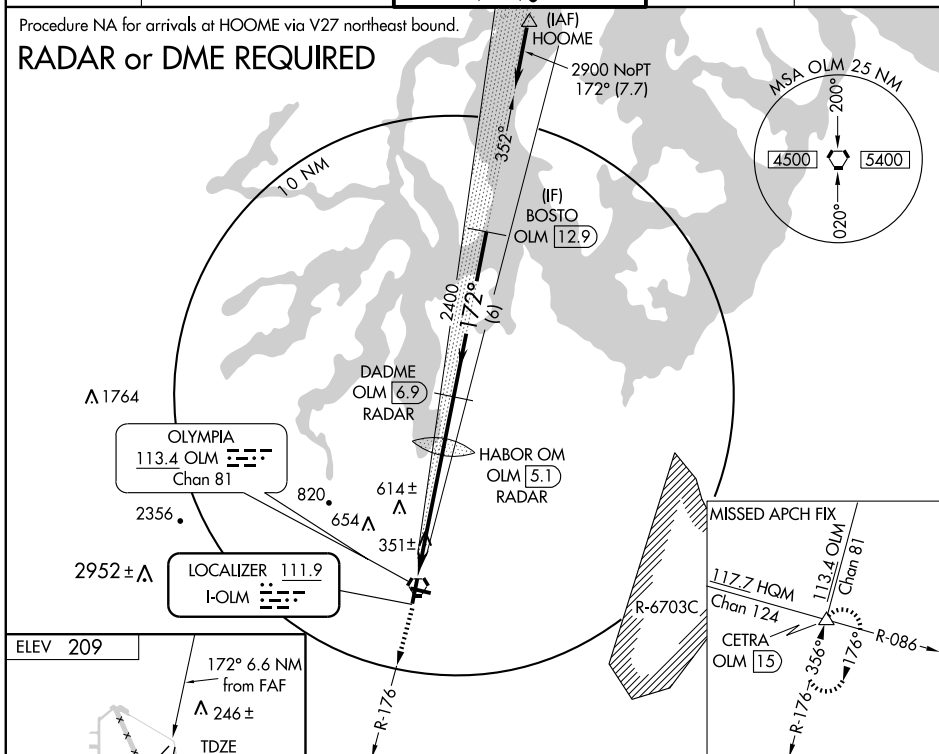


MISSED APPROACH: Climb to 1400, then continue climb to 5500 via OLM VORTAC R-176 to CETRA INT/OLM 15 DME and hold, continue climb-in-hold to 5500.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER* 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at HOOME via V27 northeast bound.

RADAR or DME REQUIRED



	1400	5500	CETRA				
	↑	↑	△				
	OLM R-176						
			DADME OLM 6.9 RADAR			BOSTO OLM 12.9 RADAR	
			HAVOR OM OLM 5.1 RADAR				
			2400			2900	
			1787				
			172°				
			2400				
			4.8 NM	1.8 NM	6 NM		
CATEGORY	A	B	C	D			
S-ILS 17	414-½ 207 (300-½)						
S-LOC 17	640-½	433 (500-½)	640-¾	640-1			
			433 (500-¾)	433 (500-1)			
			820-1¾	860-2			
			611 (700-1¾)	651 (700-2)			
CIRCLING	720-1	511 (600-1)					

RNAV (GPS) RWY 17

OLYMPIA RGNL (OLM)

WAAS CH 45599 W17A	APP CRS 172°	Rwy Idg TDZE Apt Elev	5501 207 209
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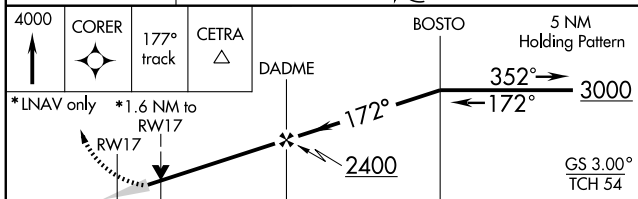
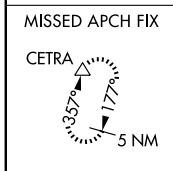
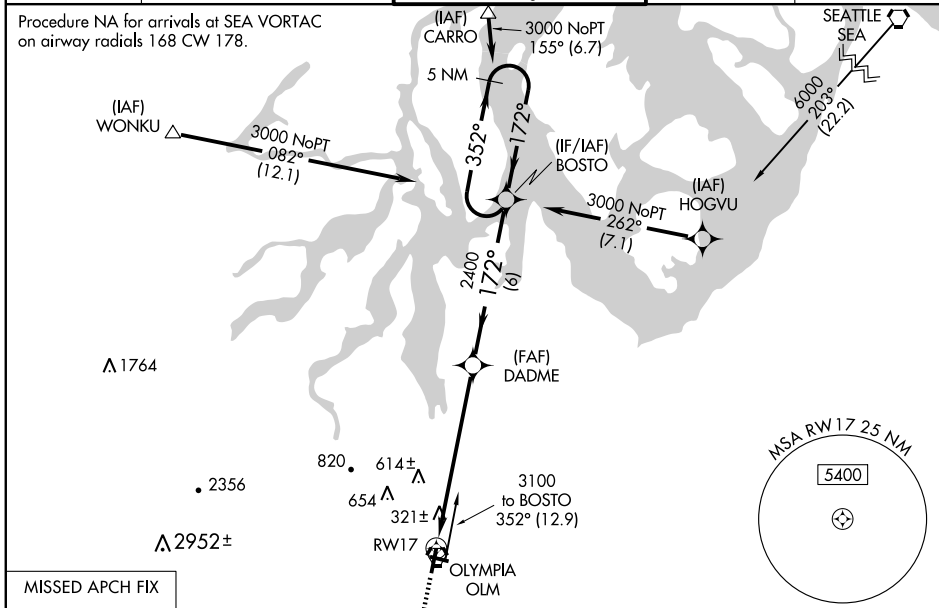
▼ DME/DME RNP-0.3 NA. For inoperative MALSR, increase LPV visibility all Cats to 1¼.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase LPV and LNAV/VNAV visibility all Cats, LNAV Cts C/D and circling visibility Cts C/D ¼ mile. VDP and Baro-VNAV NA when using Sanderson Field altimeter setting.



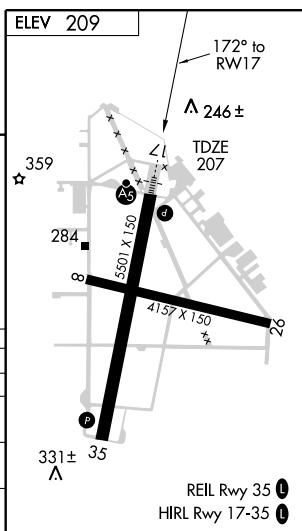
MISSED APPROACH: Climb to 4000 direct CORER and via 177° track to CETRA and hold, continue climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at SEA VORTAC on airway radials 168 CW 178.



CATEGORY	A	B	C	D
LPV DA	590-¾ 383 (400-¾)			
LNAV/VNAV DA	636-1 429 (500-1)			
LNAV MDA	760-½ 553 (600-½)	760-1 553 (600-1)	760-1¼ 553 (600-1¼)	
CIRCLING	760-1 551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)	

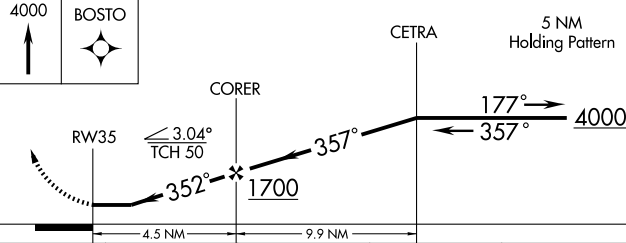
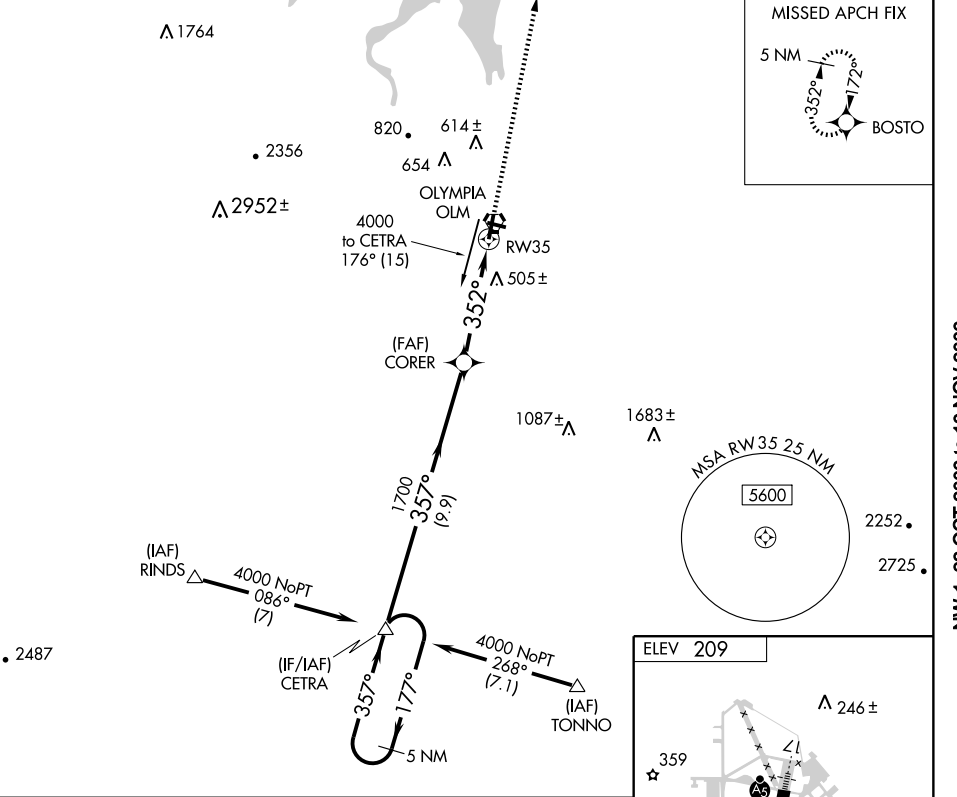


REIL Rwy 35
HIRL Rwy 17-35

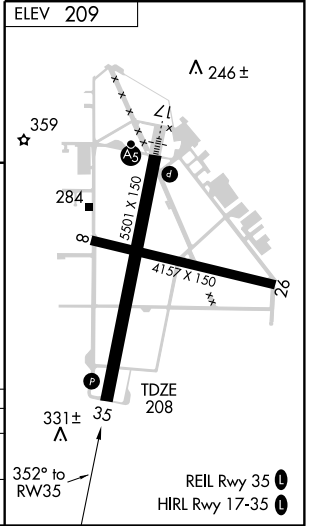
When local altimeter setting not received, use Sanderson Field altimeter setting and increase all MDAs 60 feet; increase visibility LNAV Cats C/D ¼ mile and circling Cat D ¼ mile.
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4000 direct BOSTO and hold, continue climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

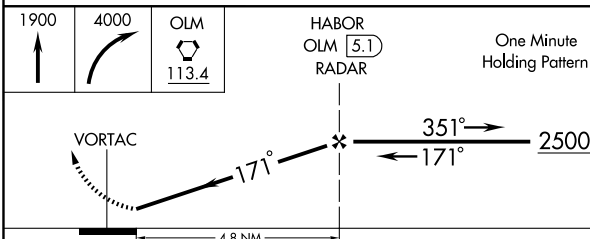
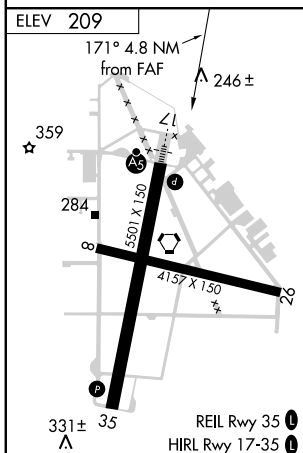


AL-645 (FAA)

VOR-A
OLYMPIA RGNL (OLM)

MISSED APPROACH: Climb to 1900 then climbing right turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

DME or RADAR REQUIRED



FAF to MAP 4.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	880-1 671 (700-1)		880-2 671 (700-2)	880-2½ 671 (700-2½)
Min:Sec	4:48	3:12	2:24	1:55	1:36					

NW-1. 22 OCT 2009 to 19 NOV 2009

AL-645 (FAA)

VORTAC OLM 113.4 Chan 81	APP CRS 356°	Rwy Idg 5501 TDZE 208 Apt Elev 209
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VOR/DME RWY 35
OLYMPIA RGNL (OLM)

T When local altimeter setting not received, use Sanderson Field
A altimeter setting and increase all MDAs 60 feet; increase visibility
 S-35 Cats C/D ¼ mile and circling Cat D ¼ mile.
 Visibility reduction by helicopters NA.

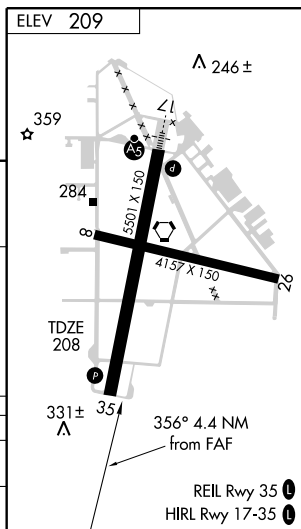
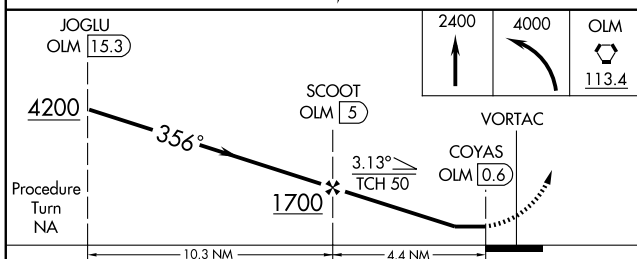
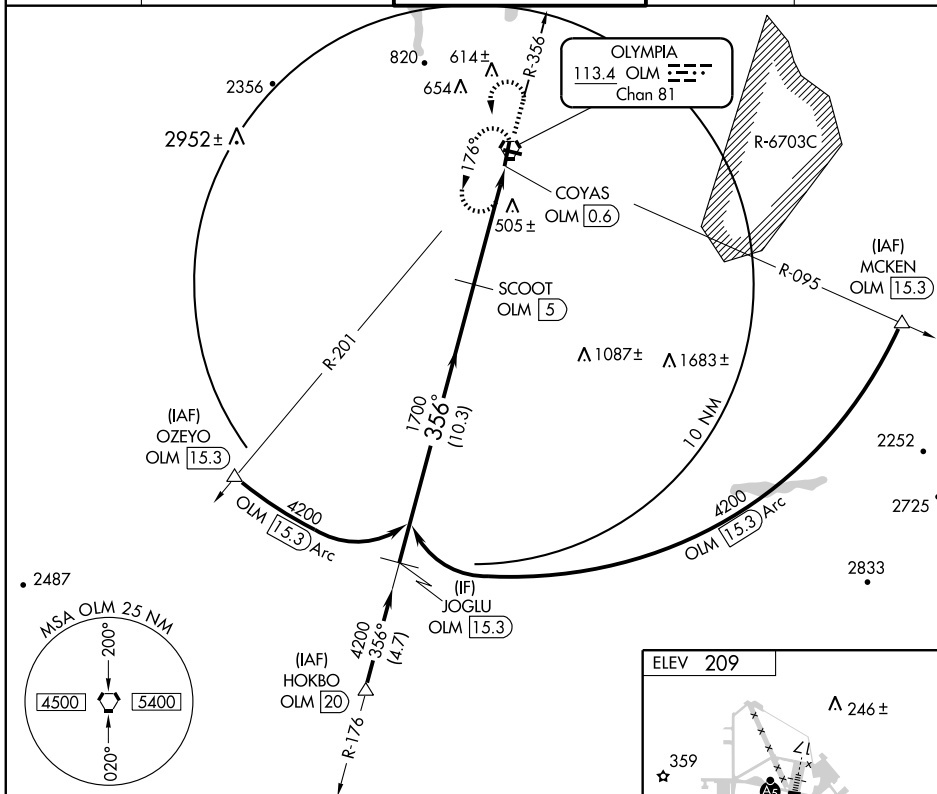
MISSED APPROACH: Climb to 2400, then climbing left turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

ATIS
135.725

SEATTLE APP CON
121.1 290.9

OLYMPIA TOWER★
124.4 (CTAF) 254.25

GND CON
121.6

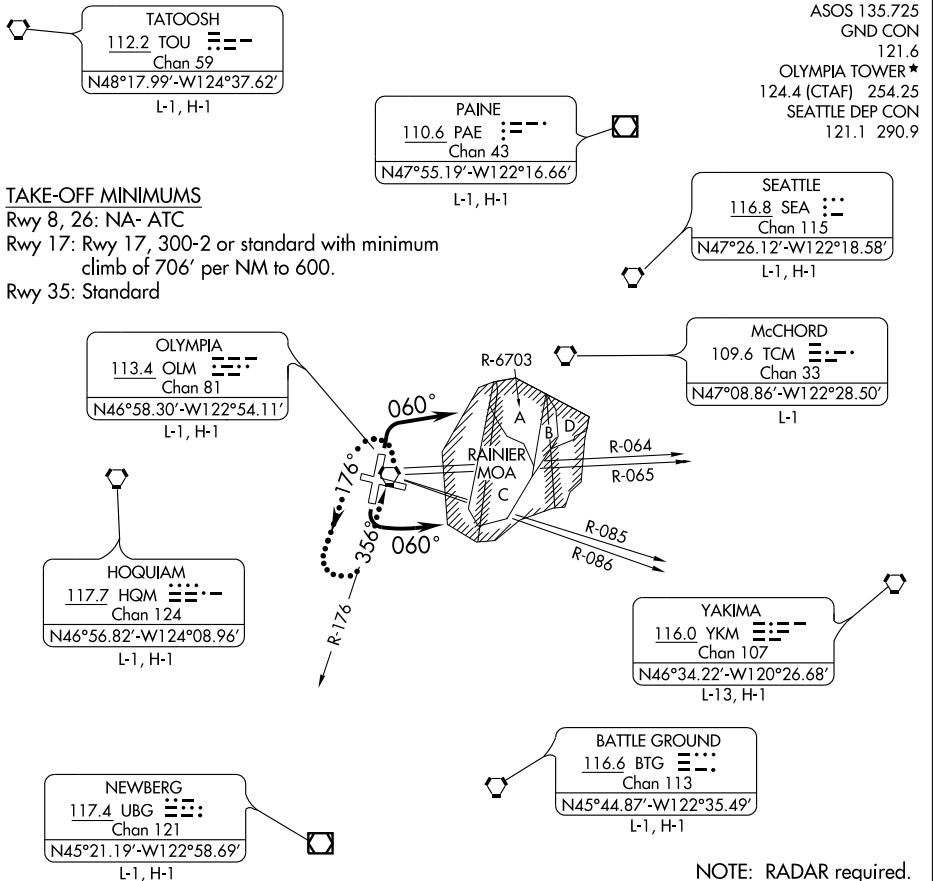
UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009

CATEGORY	A	B	C	D
S-35	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

YELM TWO DEPARTURE

SL-645 (FAA)

OLYMPIA RGNL (OLM)
OLYMPIA, WASHINGTON**TAKE-OFF OBSTACLE NOTES**

RWY 17: Multiple trees beginning 1005' from DER, 24' left of centerline, up to 100' AGL/490' MSL.

Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL.

RWY 35: Multiple trees beginning 2176' from DER, 198 feet left of centerline up to 100' AGL/313' MSL.

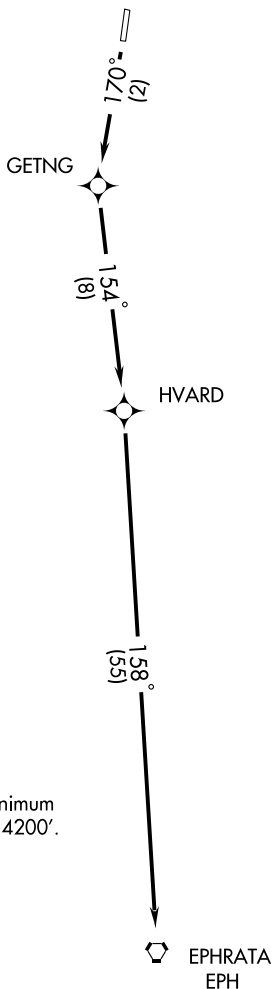
Multiple trees and FLDLT on HGR beginning 657' from DER, 621' right of centerline, up to 100' AGL/ 315' MSL.

**DEPARTURE ROUTE DESCRIPTION****TAKE-OFF RUNWAY 17:** Turn left. Thence....**TAKE-OFF RUNWAY 35:** Turn right. Thence....

...Climb via heading 060°, maintain 2000. Expect radar vectors on course and filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 6 NM of OLM VORTAC, or 2 minutes after departure for non-DME aircraft, turn left direct OLM VORTAC, continue climb in OLM VORTAC holding pattern to cross OLM VORTAC at or above R-086 CW R-064 4000 feet; R-065 CW R-085 7300 feet, continue climb via assigned route.

SEATTLE CENTER
126.1 291.6
SEATTLE RADIO
122.2



NOTE: 2200-2 or standard with a minimum climb of 300 Feet per Mile to 4200'.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb to 4200 via 170° course to GETNG WP, 154° course to HVARD WP, and 158° course to EPH VORTAC. Thence proceed on course.

TAKE-OFF RUNWAY 35: NA

APP CRS	Rwy Idg	4654
335°	TDZE	1299
	Apt Elev	1301

GPS RWY 35
OMAK (OMK)

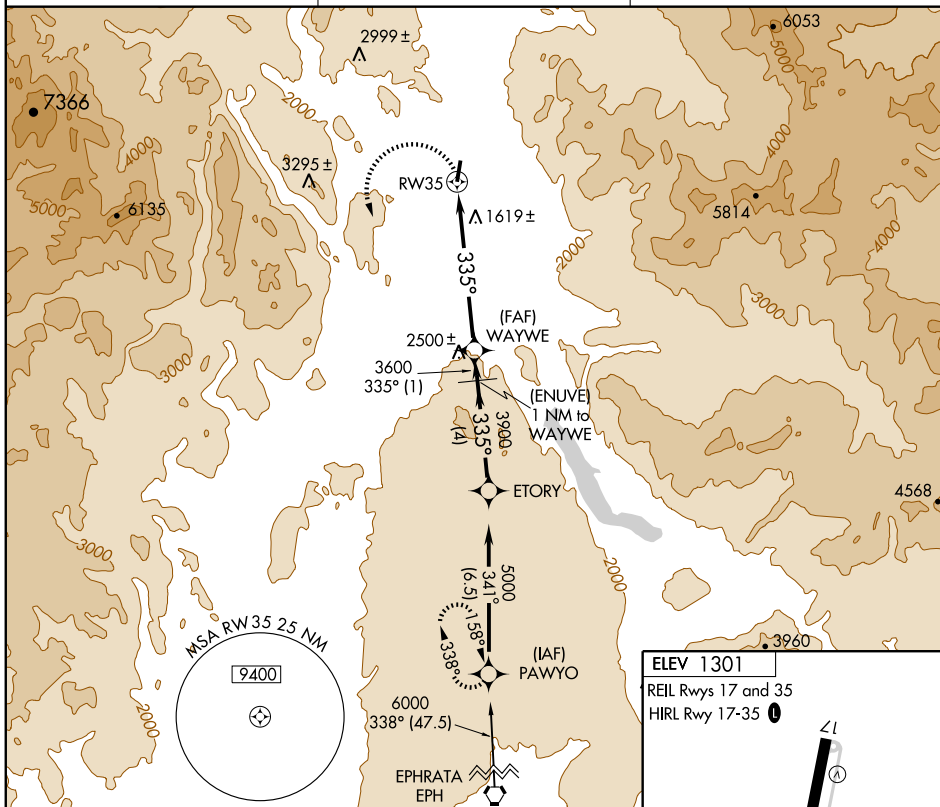


ANA

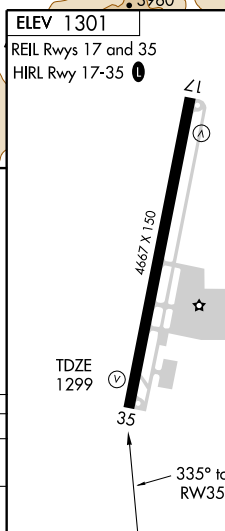
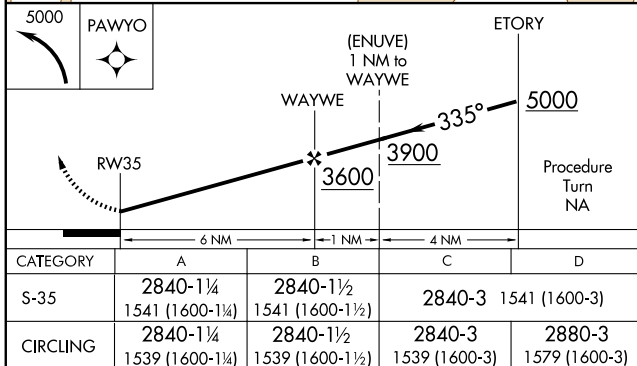
MISSED APPROACH: Climbing left turn to 5000 direct PAWYO WP and hold.

ASOS
118.325

SEATTLE CENTER
126.1 291.6

UNICOM
122.8 (CTAF) **L**

NW-1. 22 OCT 2009 to 19 NOV 2009



AIRPORT DIAGRAM

AL-474 (FAA)

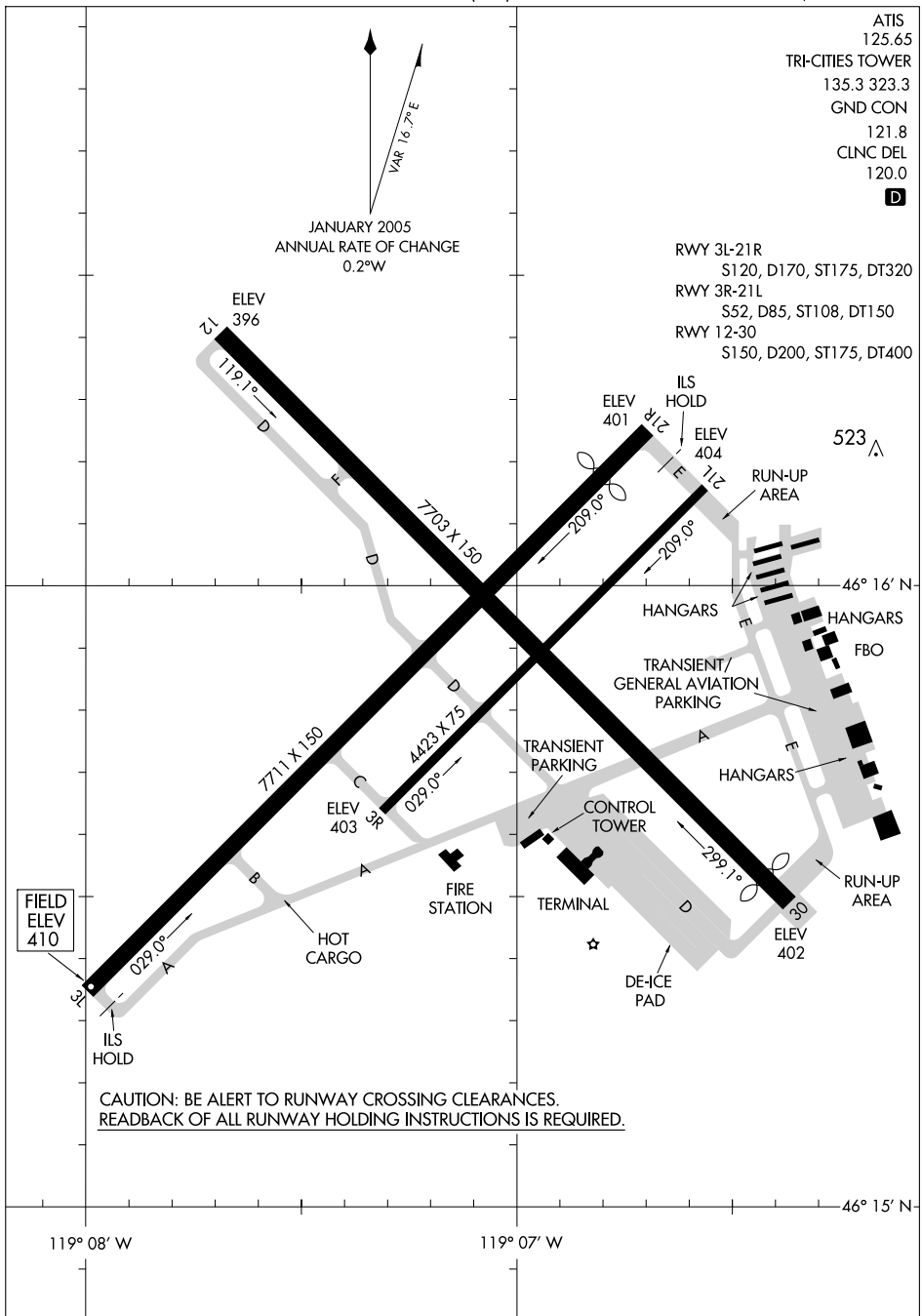
PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS
125.65
 TRI-CITIES TOWER
135.3 323.3
 GND CON
121.8
 CLNC DEL
120.0



JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.2°W

RWY 3L-21R
S120, D170, ST175, DT320
 RWY 3R-21L
S52, D85, ST108, DT150
 RWY 12-30
S150, D200, ST175, DT400



NW-1, 22 OCT 2009 to 19 NOV 2009

LOC I-PSC	APP CRS	Rwy Idg	7111
108.7	206°	TDZE	404
		Apt Elev	410

ILS or LOC RWY 21R

PASCO/ TRI-CITIES (PSC)

▽ If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.

▲ DME from PSC VOR/DME. Simultaneous reception of I-PSC and PSC VOR/DME when DME required.

**RVR 1800 authorized with the use of FD or AP or HUD to DA.

Circling to Rwy 03R NA at night.

MALSR

MISSED APPROACH: Climb to 1200 then climbing left turn to 3200 via heading 050° and PSC VOR/DME R-087 to CITYS INT/ PSC 14 DME and hold.

ATIS★	CHINOOK APP CON★	TRI-CITIES TOWER★	GND CON	CLNC DEL	UNICOM
125.65	128.75 377.2	135.3 (CTAF) 323.3	121.8	120.0	122.95

3200 NoPT to RYENS 136° (3.2) and LOC (1.6)

(IAF) SMITT PSC 17

LR-016

3200 NoPT PSC 14 Arc

(IAF) EXODE PSC 14

3500 PSC 14 Arc

R-301

LOM/IAF DUNEZ 331 PS

829±

636±

2400 206° (7.8)

3000 to LOM 024° (6.2)

SUYOK PSC 2.4

721

554

608

R-269

PASCO 108.4 PSC Chan 21

LOCALIZER 108.7 I-PSC

1624±

1939±

2463

2477

2207±

1407

15 NM

1991±

R-087

(IAF) CITYS PSC 14

1147 PDI

Chan 94

R-351

087°

2678

3200 NoPT PSC 14 Arc

R-290

RYENS INT PSC 14

(POCIC) (IF)

026°

MSA PS 25 NM

3300

100°

280°

4800

3500

010

ALTERNATE MISSED APCH FIX

DUNEZ 331 PS

026°

206°

3200 NoPT (31.8)

IAF WALLA WALLA 116.4 ALW Chan 111

ELEV 410

206° 5.9 NM from FAF

TDZE 404

479

7703 X 150

7711 X 150

4473 X 75

471

480

REIL Rwy 3L and 12

MIRL Rwy 12-30

HIRL Rwy 3L-21R

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

	1200	3200	PSC R-087 108.4	CITYS	
	↑	050°		△	Remain within 10 NM
	%1180 when using Hermiston altimeter setting. * LOC only				
CATEGORY	A	B	C	D	
S-ILS 21R	**604/24 200 (200-½)				
S-LOC 21R	1080/24 676 (700-½)	1080-1½ 676 (700-½)	1080-1¾ 676 (700-¾)	1080-2 676 (700-2½)	
CIRCLING	1080-1 670 (700-1)	1080-2 670 (700-2)	1080-2½ 670 (700-2½)	1080-3 670 (700-3)	
SUYOK FIX MINIMUMS					
S-LOC 21R	900/24 496 (500-½)	900/40 496 (500-¾)	900/50 496 (500-1)	900/60 496 (500-1½)	
CIRCLING	920-1 510 (600-1)	920-1½ 510 (600-1½)	920-2 510 (600-2)	920-2½ 510 (600-2½)	

NW-1, 22 OCT 2009 to 19 NOV 2009

AL-474 (FAA)

RNAV (GPS) RWY 3L

PASCO/TRI-CITIES (PSC)

MISSED APPROACH: Climb to 3200
direct HESOX and via 100° track to
CITYS and hold.

REIL Rwy 3L and 12
MIRL Rwy 12-30 **L**
HIRL Rwy 3L-21R **L**

NW-1. 22 OCT 2009 to 19 NOV 2009

⚠ When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

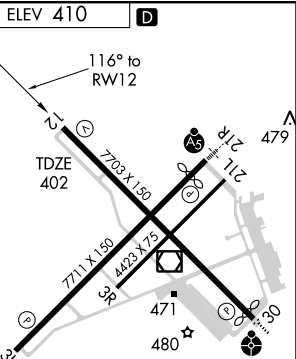
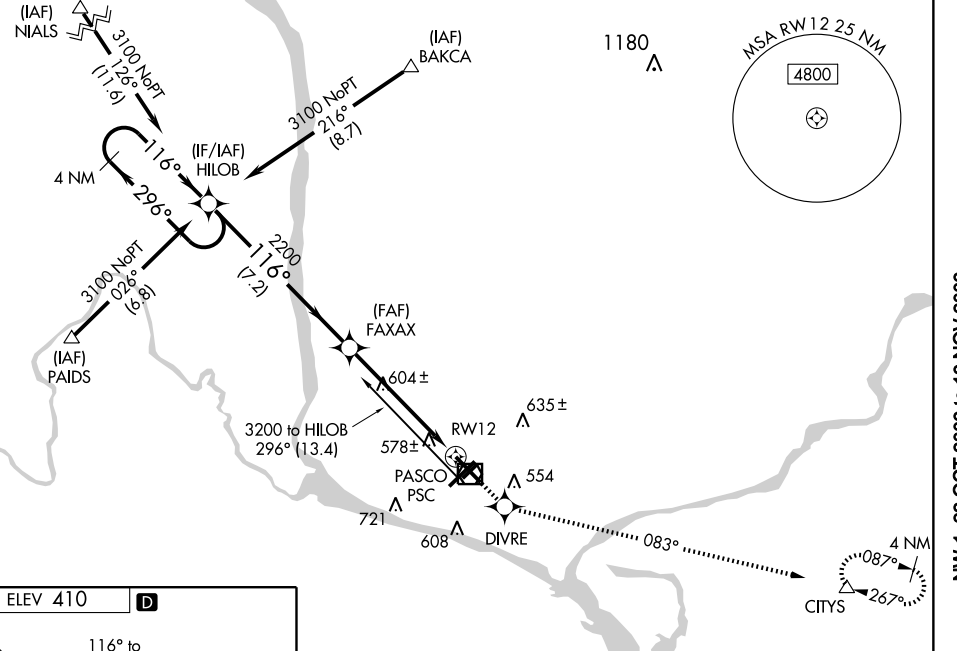
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

VDP and Baro-VNAV NA when using Hermiston altimeter setting.

Circling to Rwy 3R NA at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3200 direct DIVRE and via 083° track to CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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WAAS CH 40303 W21A	APP CRS 206°	Rwy Idg TDZE Apt Elev	7111 404 410
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RNAV (GPS) RWY 21R
PASCO/TRI-CITIES (PSC)

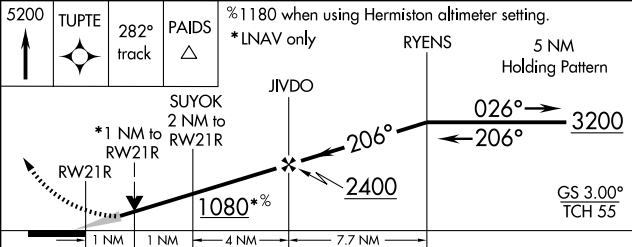
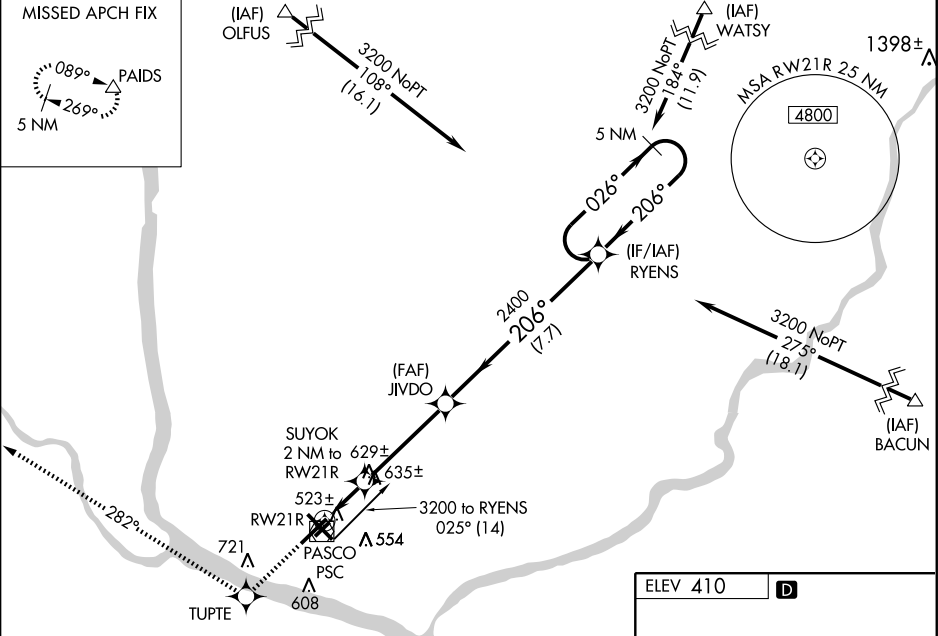
For inoperative MALS, increase LPV all Cats visibility to RVR 5000 and LNAV Cat D visibility to RVR 6000.
If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
VDP and Baro-VNAV NA when using Hermiston altimeter setting.

MALS

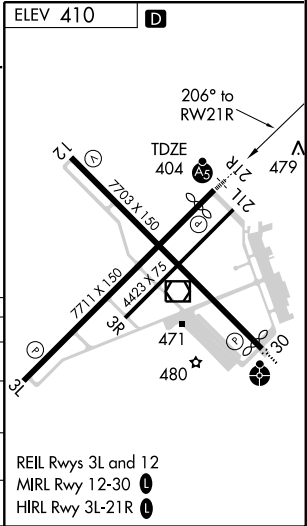


MISSED APPROACH: Climb to 5200 direct TUPTTE and via 282° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	680/24	276 (300-½)		
LNAV/VNAV DA	797/40	393 (400-¾)		
LNAV MDA	780/24	376 (400-½)	780/50 376 (400-1)	
CIRCLING	880-1 470 (500-1)	900-1½ 490 (500-1½)	1040-2 630 (700-2)	



▼

When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

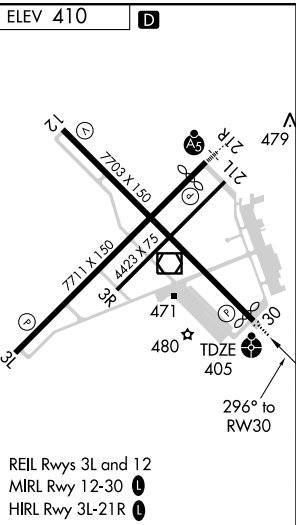
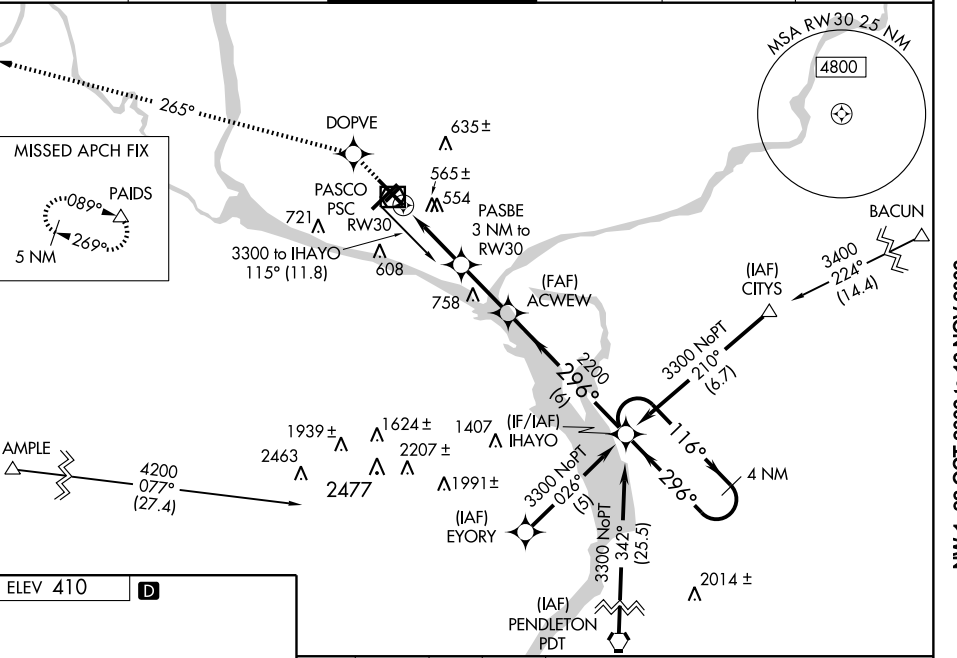
▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
VDP and Baro-VNAV NA when using Hermiston altimeter setting.
Inoperative table does not apply. Circling to Rwy 3R NA at night.
Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

ODALS

MISSED APPROACH: Climb to 5200 direct DOPVE and via 265° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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5200	DOPVE	265° track	PAIDS	4 NM Holding Pattern
*LNAV only				
PASBE 3 NM to RW30 * 1.3 NM to RW30				
RW30				
1400*				
1.3 NM 1.7 2.4 NM 6 NM				
CATEGORY				
LPV DA	777-1¼ 372 (400-1¼)			
LNAV/VNAV DA	913-1¾ 508 (600-1¾)			
LNAV MDA	880-1 475 (500-1)		880-1¼ 475 (500-1¼)	880-1½ 475 (500-1½)
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-1½)	1040-2 630 (700-2)

TRI-CITIES FOUR DEPARTURE

SL-474 (FAA)

PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS 125.65
CLNC DEL
120.0
GND CON
121.8
TRI-CITIES TOWER
135.3 (CTAF) 323.3
CHINOOK DEP CON
128.75 377.2

WENATCHEE
111.0 EAT :--
Chan 47
N47°23.98'-W120°12.65'
L-13

EPHRATA
112.6 EPH :--
Chan 73
N47°22.68'-W119°25.44'
L-13, H-1

SPOKANE
115.5 GEG :--
Chan 102
N47°33.90'-W117°37.61'
L-13, H-1

MOSES LAKE
115.0 MWH :--
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

ELLENSBURG
117.9 ELN :--
Chan 126
N47°01.46'-W120°27.51'
L-13, H-1

PULLMAN
109.0 PUW :--
Chan 27
N46°40.46'-W117°13.41'
L-13

YAKIMA
116.0 YKM :--
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

PASCO
108.4 PSC :--
Chan 21
N46°15.78'-W119°06.94'
L-13

NEZ PERCE
108.2 MQG :--
Chan 19
N46°22.89'-W116°52.17'
L-13

KLUCKITAT
112.3 LTJ :--
Chan 70
N45°42.81'-W121°06.05'
L-13, H-1

WALLA WALLA
116.4 ALW :--
Chan 111
N46°05.22'-W118°17.55'
L-13

PENDLETON
114.7 PDT :--
Chan 94
N45°41.91'-W118°56.32'
L-13, H-1

NOTE: SID will not be assigned when Control Tower is closed.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: Climb runway heading to 3,000' then reverse course direct PSC VOR/DME to cross at or above MEA for route of flight.

▼

Inoperative table does not apply to Cat C.

▲

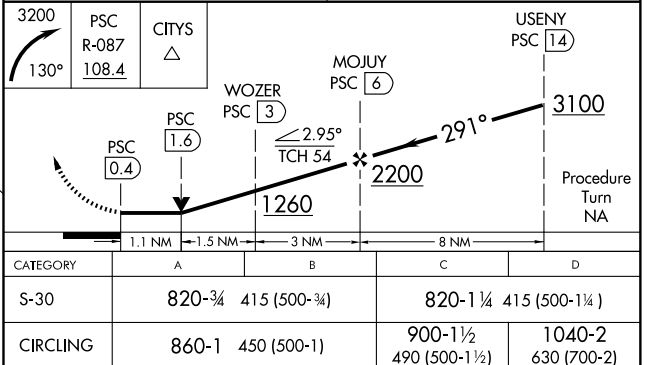
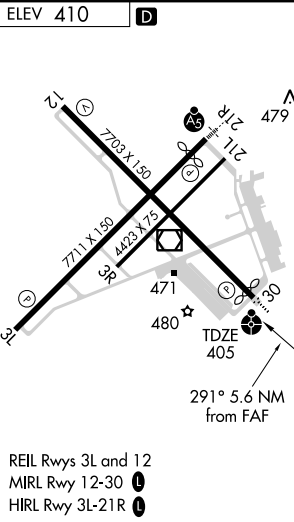
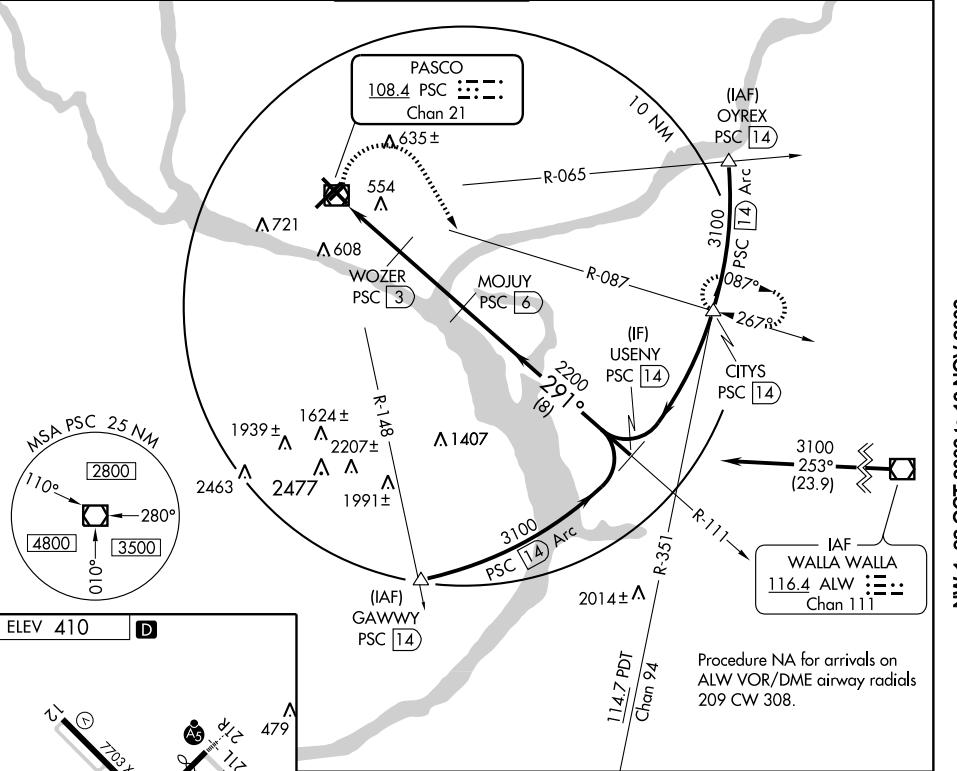
Visibility reduction by helicopters NA.

When local altimeter setting not received, use Hermiston altimeter setting and increase all MDA 100 feet, increase S-30 visibility Cat C ¼ mile, Cat D ½ mile and circling Cat D ¼ mile.

ODALS

MISSED APPROACH: Climbing right turn to 3200 via heading 130° and PSC R-087 to CITYS INT/PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3(CTAF) 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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NW-1, 22 OCT 2009 to 19 NOV 2009

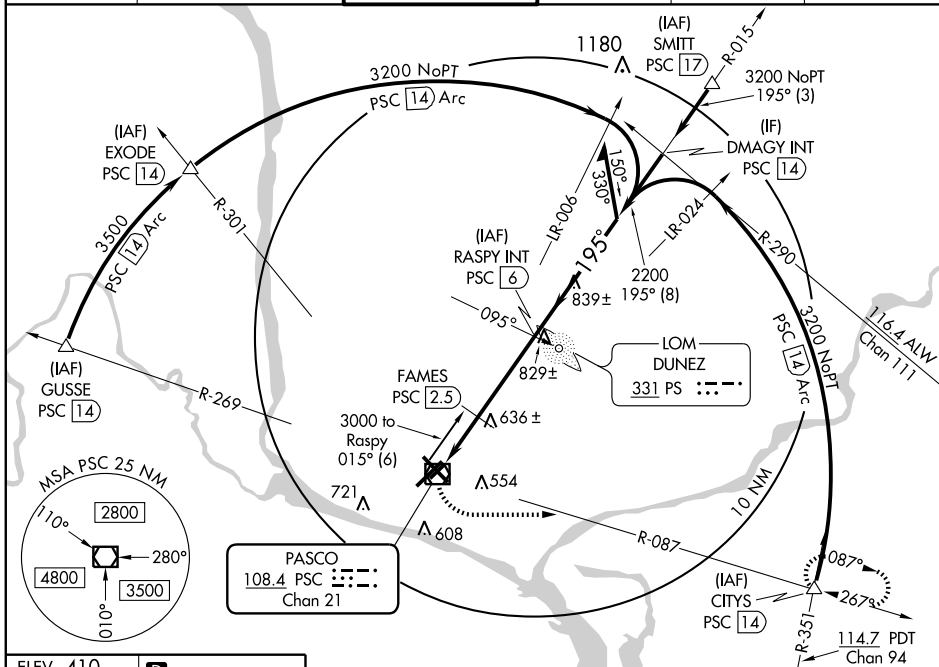
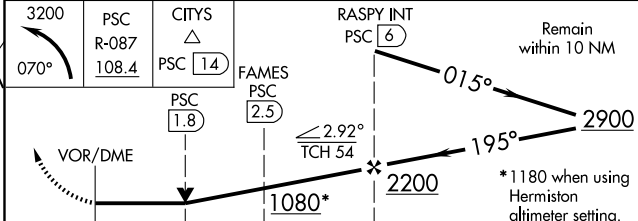
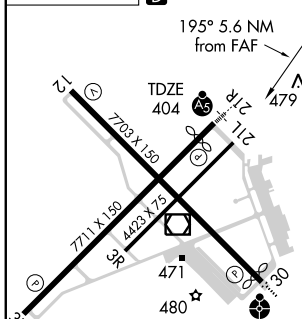
VOR/DME PSC	APP CRS	Rwy Idg	7111
108.4	195°	TDZE	404
Chan 21		Apt Elev	410

VOR RWY 21R

PASCO/ TRI-CITIES (PSC)

<p>▲ If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 100 feet.</p> <p>▲ VDP NA when using Hermiston altimeter setting.</p> <p>ADF or DME required. Circling to Rwy 03R NA at night.</p>	<p>MALSR</p> 	<p>MISSED APPROACH: Climbing left turn to 3200 via heading 070° and PSC VOR/DME R-087 to CITYS INT/PSC 14 DME and hold.</p>
--	--	---

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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ELEV 410 **D**

CATEGORY	A	B	C	D
S-21R	1080/24 676 (700-½)		1080-1½ 676 (700-½)	1080-1¾ 676 (700-¾)
CIRCLING	1080-1 670 (700-1)		1080-2 670 (700-2)	1080-2¼ 670 (700-2¼)
FAMES FIX MINIMUMS				
S-21R	900/24 496 (500-½)		900/40 496 (500-¾)	900/50 496 (500-1)
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-½)	1040-2 630 (700-2)

REIL Rwy 3L and 12

MIRL Rwy 12-30 **1**HIRL Rwy 3L-21R **1**

ILS or LOC RWY 8

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

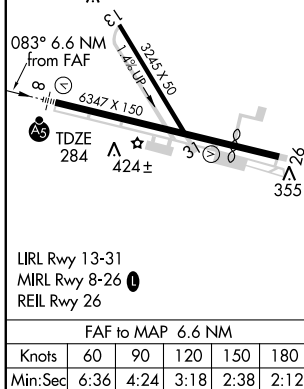
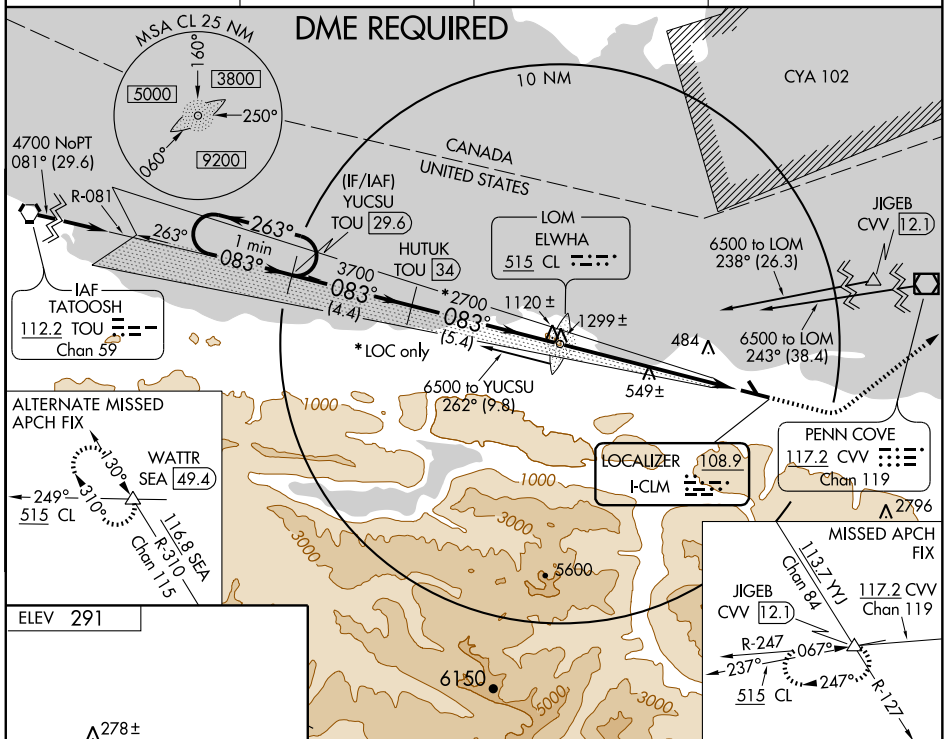
LOC I-CLM	APP CRS	Rwy Idg	6347
108.9	083°	TDZE	284
		Apt Elev	291

- ▼** Circling NA south of Rwy 8-26.
- ▲** DME required.
- DME from TOU VORTAC. Simultaneous reception of I-CLM and TOU DME required.
- If local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDAs 100 feet. ILS procedure NA.



MISSED APPROACH: Climb to 1000 then climbing left turn to 5400 via heading 030° and CVV R-247 to JIGEB/CVV 12.1 DME and hold, continue climb-in-hold to 5400.

ASOS	WHIDBEY APP CON*	CLNC DEL	UNICOM
135.175	118.2 285.65	124.15	122.975 (CTAF) 0



CATEGORY	A	B	C	D
S-ILS 8	486-1/2 202 (200-1/2)			
S-LOC 8	840-1/2	556 (600-1/2)	840-1 556 (600-1)	840-1 1/4 556 (600-1 1/4)
CIRCLING	840-1	549 (600-1)	840-1 1/2 549 (600-1 1/2)	860-2 569 (600-2)

WAAS CH 77703 W08A	APP CRS 082°	Rwy Idg 6347 TDZE 284 Apt Elev 291
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RNAV (GPS) RWY 8

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

T Circling NA south of Rwy 8-26. DME/DME RNP-0.3 NA.
A If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DAs/MDAs 100 feet. VDP NA when using Friday Harbor altimeter setting.

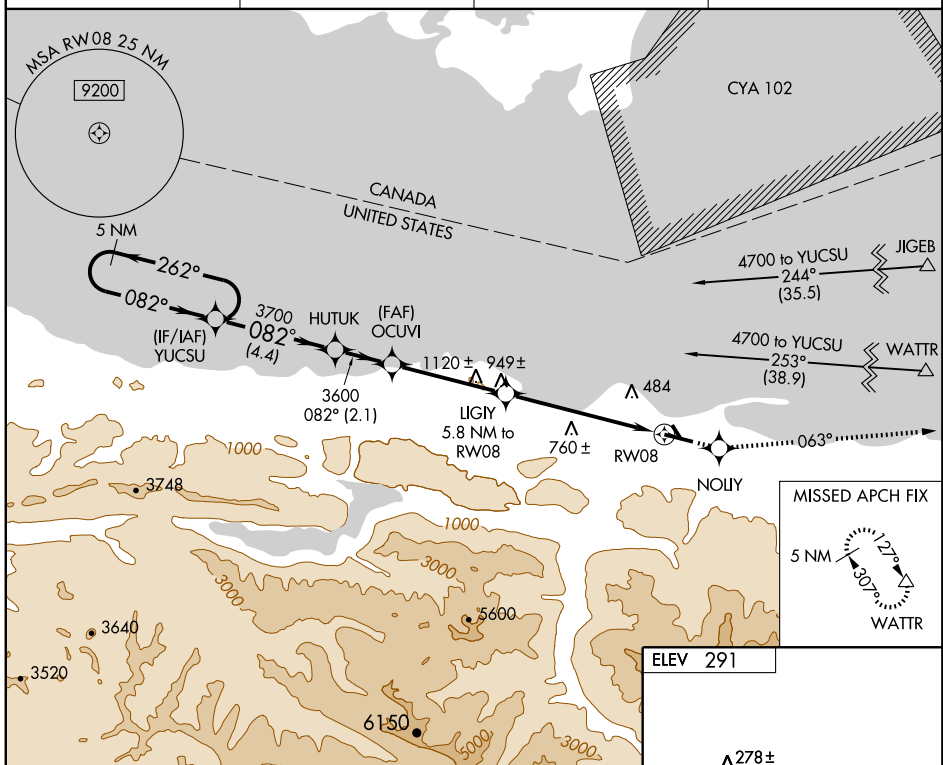
MALSR



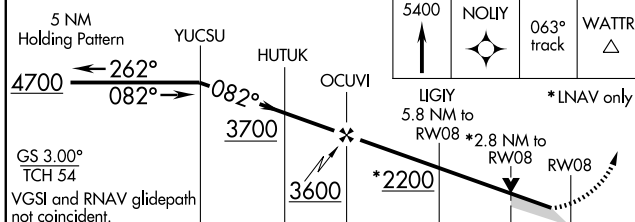
MISSED APPROACH: Climb to 5400 direct NOLLY and via 063° track to WATTR and hold, continue climb-in-hold to 5400.

ASOS
135.175

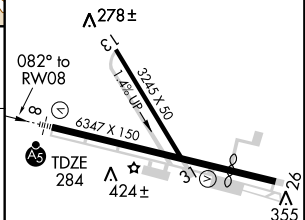
WHIDBEY APP CON ★
118.2 285.65

CLNC DEL
124.15UNICOM
122.975 (CTAF) 

NW-1. 22 OCT 2009 to 19 NOV 2009



CATEGORY	A	B	C	D
LPV DA	596-1/2 312 (400-1/2)			
RNAV MDA	1240-3/4 956 (1000-3/4)	1240-1 956 (1000-1)	1240-2 1/2	956 (1000-2 1/2)
CIRCLING	1240-1 1/4 949 (1000-1 1/4)	1240-1 1/2 949 (1000-1 1/2)	1240-3	949 (1000-3)



LIRL Rwy 13-31
MIRL Rwy 8-26 **L**
REIL Rwy 26

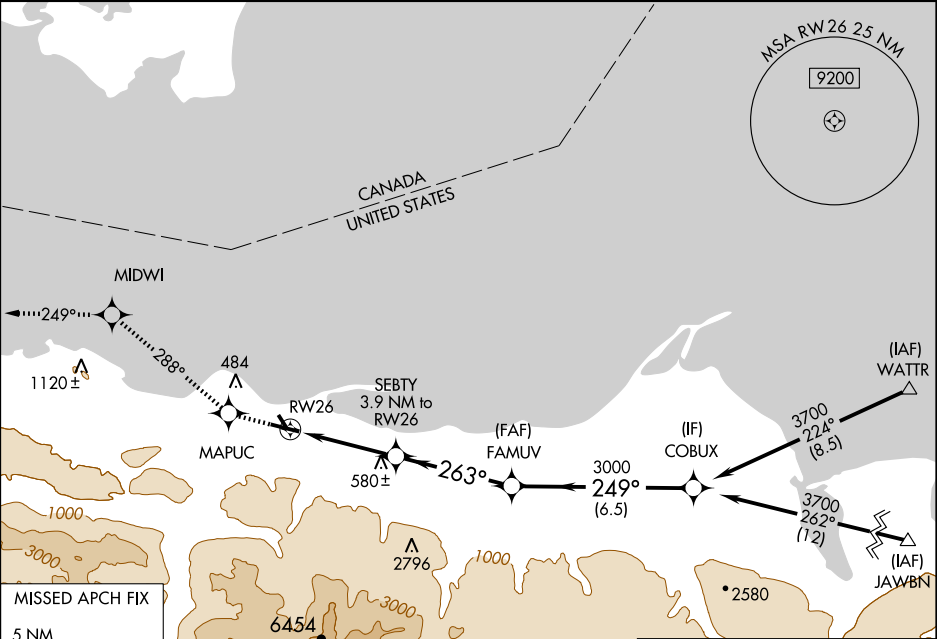
APP CRS	Rwy Idg	4993
263°	TDZE	282
	Apt Elev	291

RNAV (GPS) RWY 26

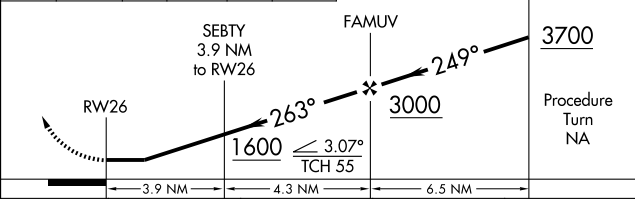
PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

<p>⚠ Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.</p> <p>⚠ Visibility reduction by helicopters NA. When local altimeter setting not received, use Friday Harbor altimeter setting; increase all MDA 100 feet and visibility Cats B/C/D ½ mile.</p>	<p>MISSED APPROACH: Climb to 5400 direct MAPUC and via track 288° to MIDWI and via track 249° to YUCSU and hold.</p>
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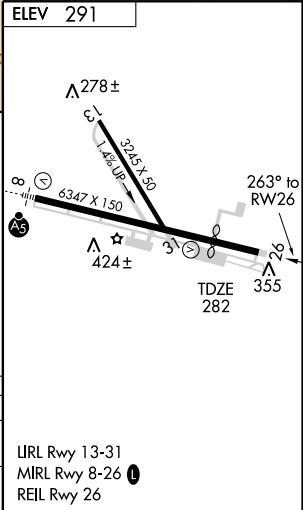
ASOS 135.175	WHIDBEY APP CON * 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 1
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5400	MAPUC	trk 288°	MIDWI	trk 249°	YUCSU	VGSI and descent angles not coincident.
↑	✱		✱		△	



CATEGORY	A	B	C	D
LNAV MDA	940-1	658 (700-1)	940-1¾ 658 (700-1¾)	940-2 658 (700-1)
CIRCLING	940-1	649 (700-1)	940-1¾ 649 (700-1¾)	940-2 649 (700-2)



WATTR FIVE DEPARTURE (OBSTACLE)

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)
SL-886 (FAA) PORT ANGELES, WASHINGTON

NAS WHIDBEY DEP CON
118.2 285.65
SEATTLE RADIO
122.6
CTAF 123.0



VICTORIA
113.7 YYJ
Chan 84
N48°43.62' - W123°29.06'
L-1, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees and pole beginning 1299' from DER, 32' left of centerline, up to 100' AGL/520' MSL.
Sign 76' from DER, 230' left of centerline, 5' AGL/276' MSL.

Hangar 1550' from DER, 457' left of centerline, 49' AGL/320' MSL.

OL on airport beacon 2023' from DER, 829' left of centerline, 74' AGL/345' MSL.

Multiple trees and pole beginning 614' from DER, 11' right of centerline, up to 100' AGL/599' MSL.

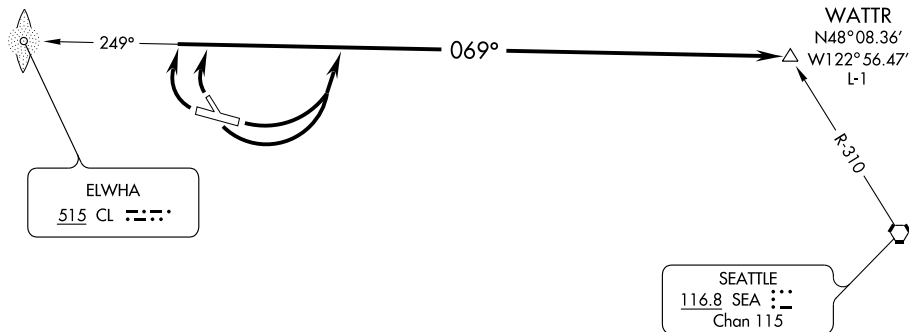
Rwy 26: Multiple trees beginning 2940' from DER, 747' left of centerline, up to 95' AGL/378' MSL.

Rwy 31: Multiple trees beginning 470' from DER, 39' left of centerline, up to 71' AGL/298' MSL.

Multiple trees beginning 640' from DER, 112' right of centerline, up to 63' AGL/290' MSL.

Rwy 8: Multiple trees and poles beginning 130' from DER, 261' left of centerline, up to 124' AGL/415' MSL.
Multiple trees and poles beginning 923' from DER, 111' right of centerline, up to 232' AGL/479' MSL.

Hangar 212' from DER, 523' right of centerline, 19' AGL/310' MSL.



TAKE-OFF MINIMUMS

Rwys 26, 31: Standard.

Rwy 13: Standard with minimum climb of 454' per NM to 1100.

Rwy 8: 300-1.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8 and 13: Climbing left turn, thence....

TAKE-OFF RUNWAYS 26 and 31: Climbing right turn, thence....

....on 069° bearing from CL LOM to WATTR INT, maintain 5400.

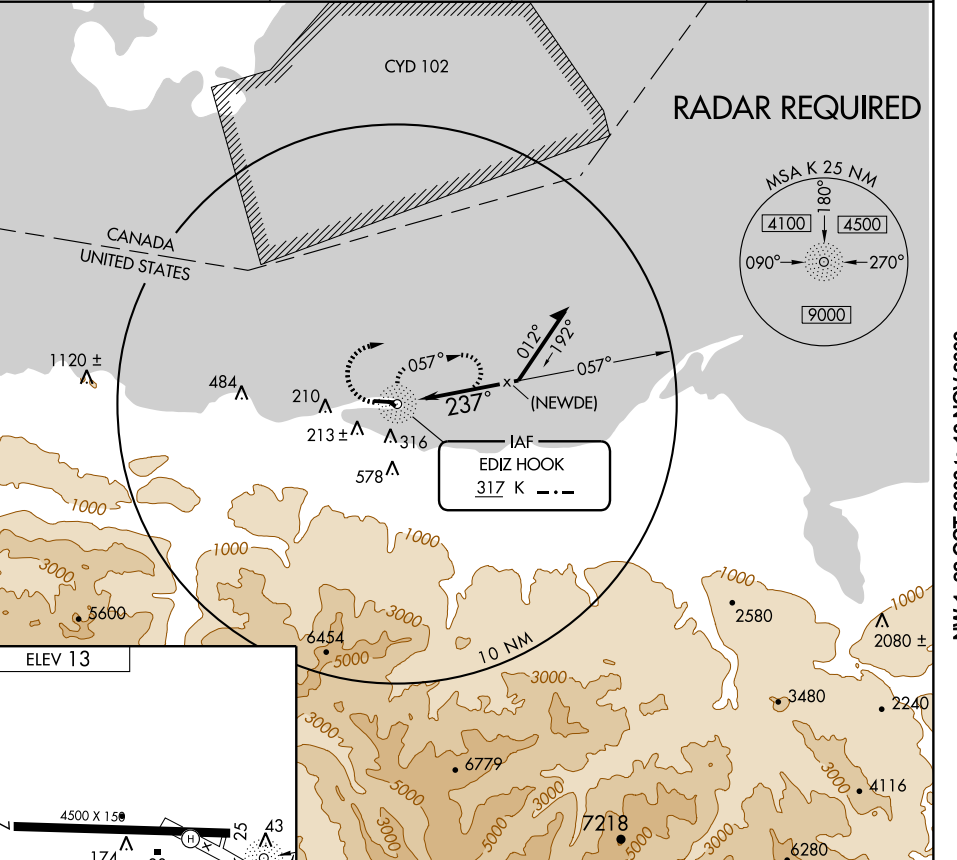
▼

NA

Prior permission required.

MISSED APPROACH: Climbing right turn to 1600 via bearing 057° from Ediz Hook NDB, then climbing left turn to 3000 direct Ediz Hook NDB and hold.

WHIDBEY APP CON 118.2 285.65	PORT ANGELES AIR 127.7 345.0	CLNC DEL 124.15	UNICOM 122.975 (CTAF)
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ELEV 13

4500 X 1.5

174 80 25 43

237° to NDB

1600	3000	K 317
------	------	----------

NDB

057°

(NEWDE)

1600

237°

4 NM

Remain within 5 NM

CATEGORY	A	B	C	D
H-237°	540-¾ 527 (600-¾)	NA		

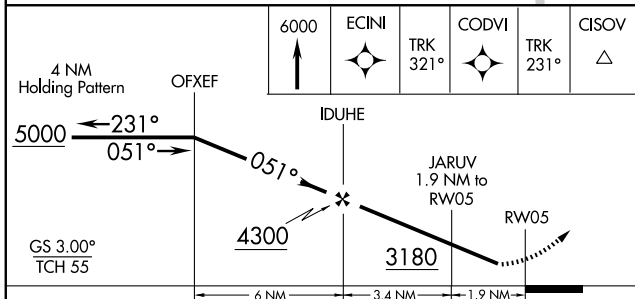
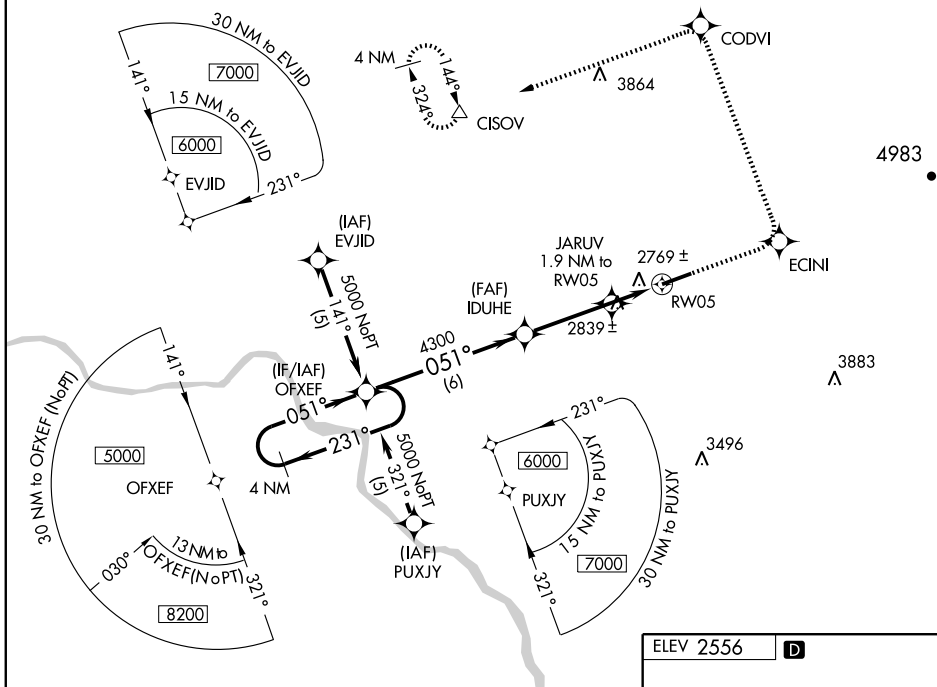
MIRL Rwy 7-25

NW-1. 22 OCT 2009 to 19 NOV 2009

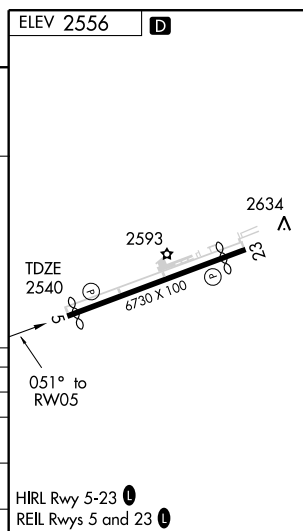
RNAV (GPS) RWY 5
PULLMAN/MOSCOW RGNL (PUW)

MISSED APPROACH: Climb to 6000 direct ECINI, and via 321° track to CODVI and via 231° track to CISOV and hold.

SEATTLE CENTER
123.95 282.3

UNICOM
122.8 (CTAF) **L**

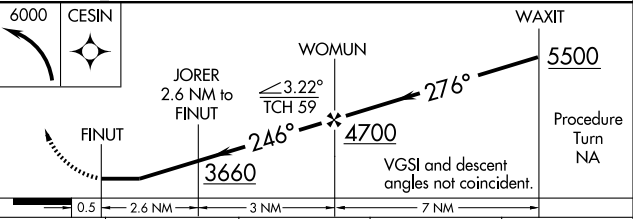
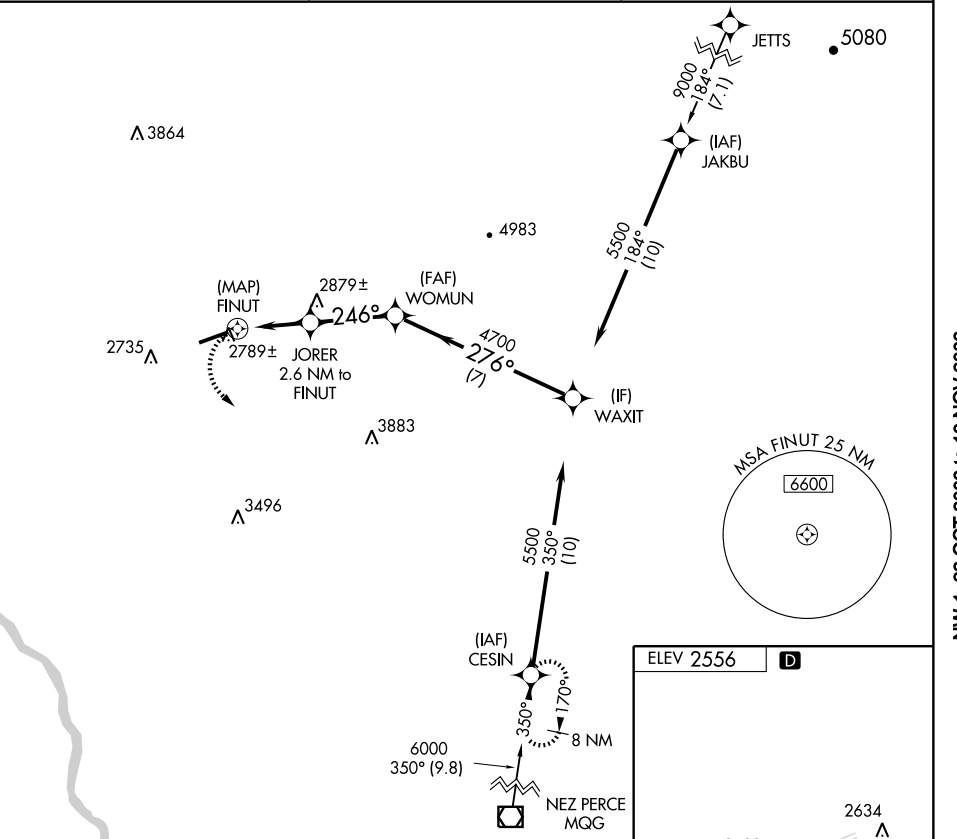
CATEGORY	A	B	C	D
LPV DA	2981-1½ 441 (500-1½)			
LNAV/ VNAV DA	3177-2¼ 637 (700-2¼)			
LNAV MDA	3100-1 560 (600-1)	3100-1½ 560 (600-1½)		3100-1¾ 560 (600-1¾)
CIRCLING	3220-2¼ 664 (700-2¼)			



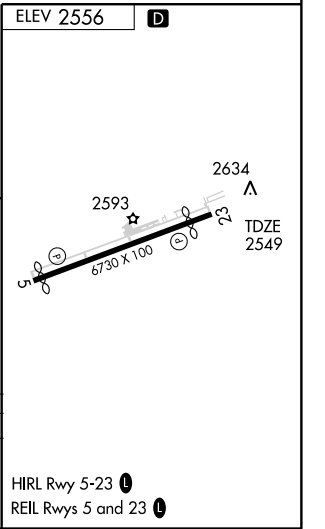
APP CRS	Rwy Idg	5240
246°	TDZE	2549
	Apt Elev	2556

<div><div>▼</div><div>DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.</div></div> <div>MISSED APPROACH: Climbing left turn to 6000 direct CESIN and hold.</div>

ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	3180-1	631 (700-1)	3180-1 ³ / ₄ 631 (700-1 ³ / ₄)	3180-2 631 (700-2)
CIRCLING	3220-1	664 (700-1)	3220-1 ³ / ₄ 664 (700-1 ³ / ₄)	3220-2 664 (700-2)



NW-1, 22 OCT 2009 to 19 NOV 2009

VOR RWY 5

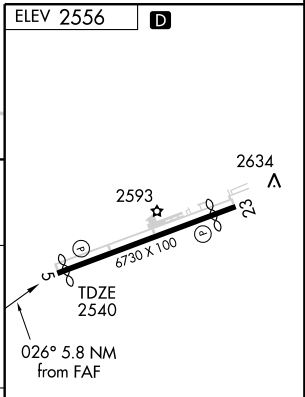
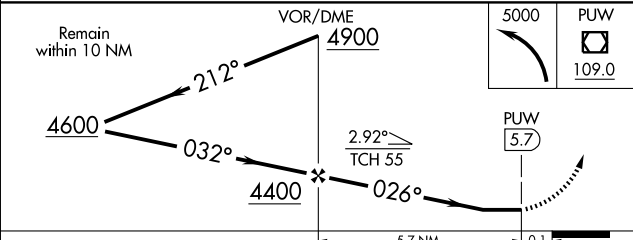
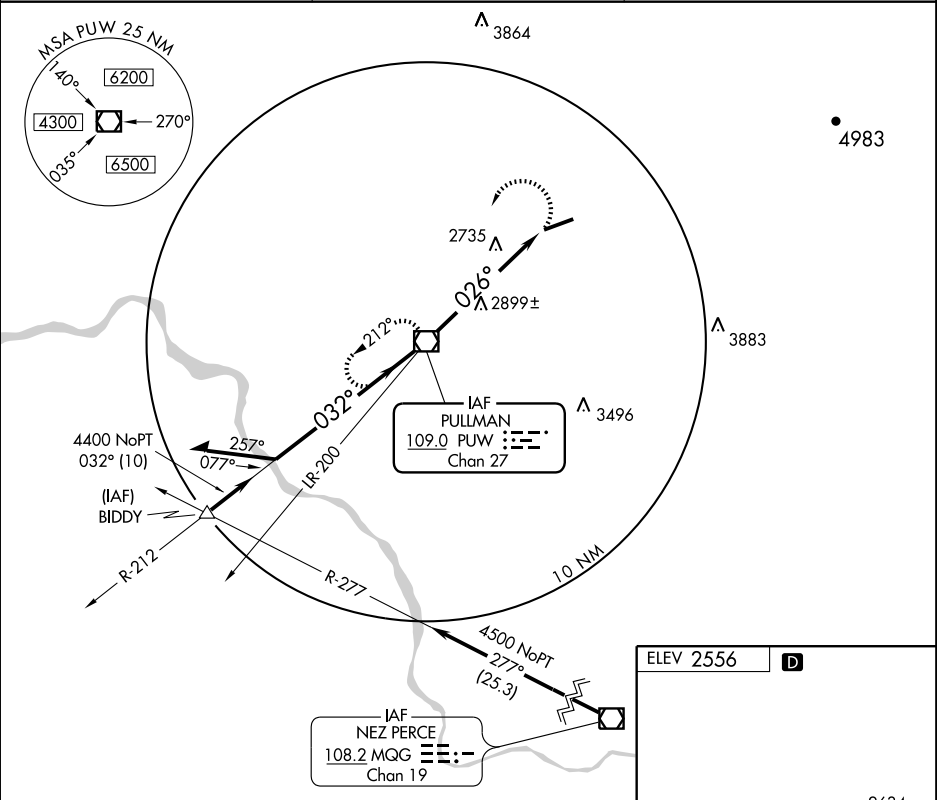
PULLMAN/MOSCOW RGNL (PUW)

VOR/DME PUW	APP CRS	Rwy Idg	6200
109.0	026°	TDZE	2540
Chan 27		Apt Elev	2556

When VGSI inoperative, circling Rwy 5 NA at night.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 5000 direct PUW
VOR/DME and hold.

ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	HIRL Rwy 5-23 0 REIL Rws 5 and 23 0 FAF to MAP 5.7 NM					
S-5	3120-1	580 (600-1)	3120-1½ 580 (600-1½)	3120-1¾ 580 (600-1¾)	Knots	60	90	120	150	180
CIRCLING	3220-1	664 (700-1)	3220-1¾ 664 (700-1¾)	3220-2 664 (700-2)	Min:Sec	5:42	3:48	2:51	2:17	1:54

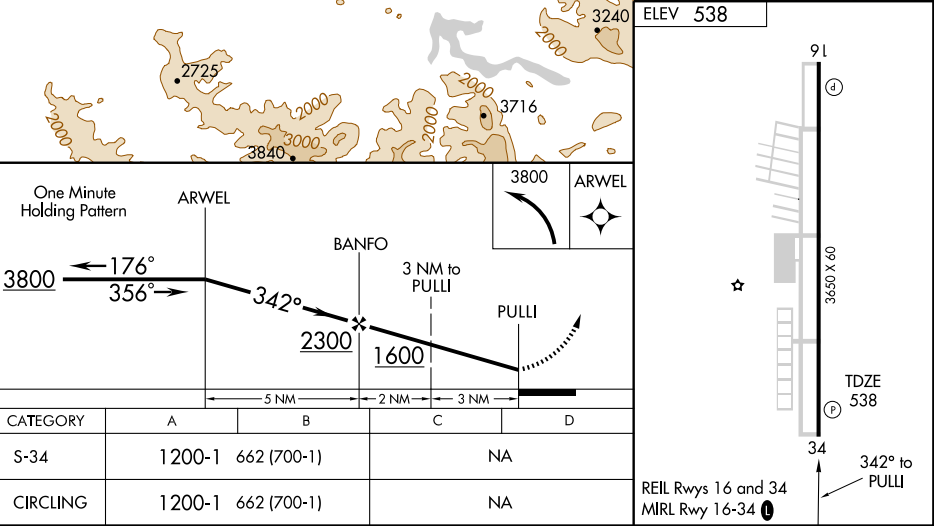
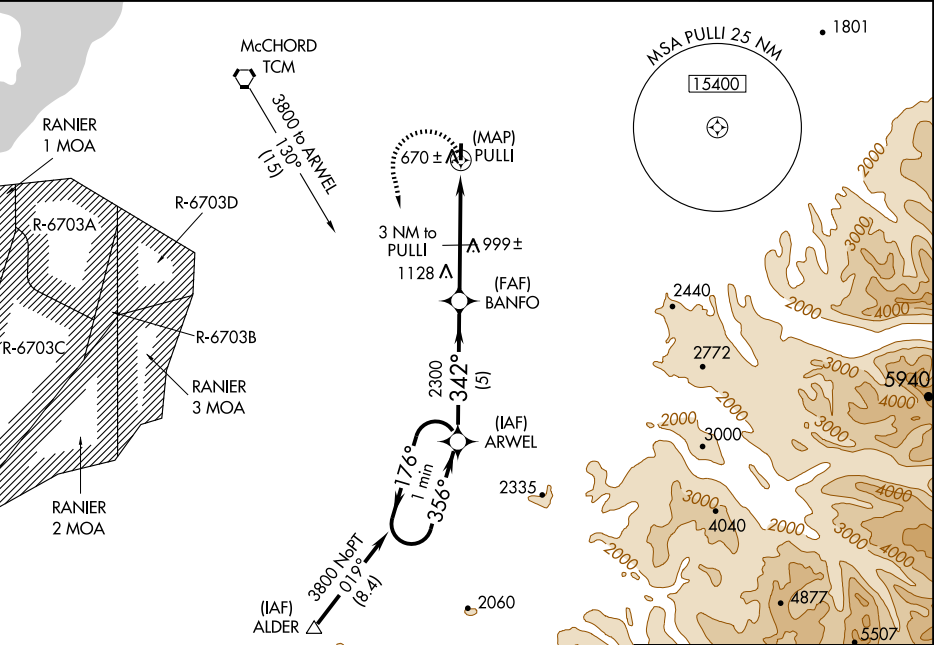
APP CRS	Rwy Idg	3650
342°	TDZE	538
	Apt Elev	538

GPS RWY 34

PUYALLUP/PIERCE COUNTY-THUN FIELD (PLU)

▼ ▲ NA	MISSED APPROACH: Climbing left turn to 3800 direct ARWEL WP and hold.
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AWOS-3 128.575	SEATTLE APP CON 126.5 391.9	CLNC DEL 121.85	UNICOM 122.7 (CTAF) ①
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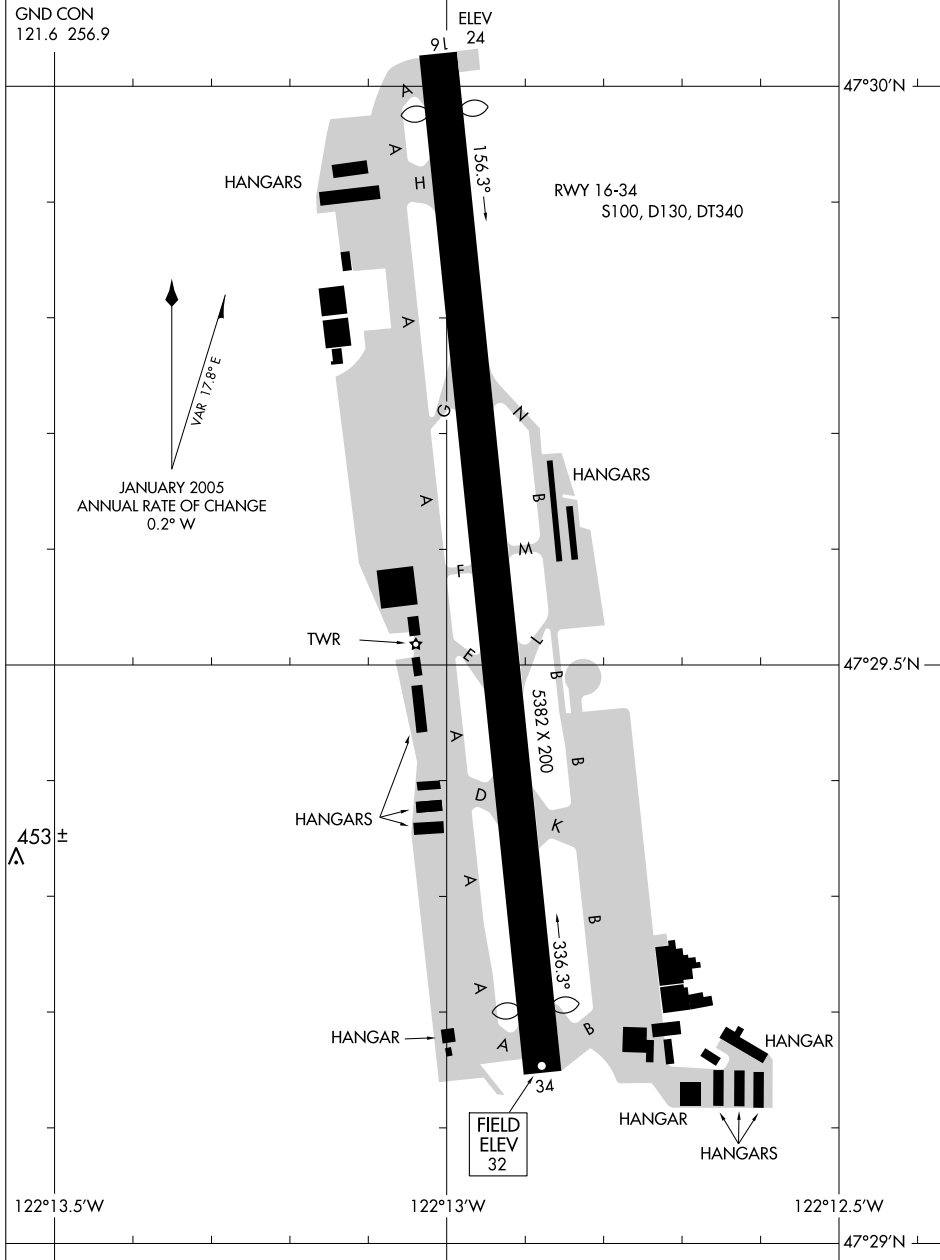
AIRPORT DIAGRAM

AL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS
126.95
RENTON TOWER ★
124.7 256.9
GND CON
121.6 256.9

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

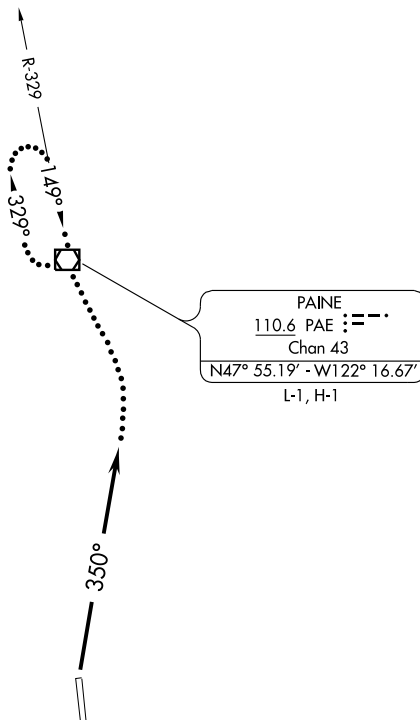


BELLEVUE ONE DEPARTURE

SL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS 126.95
GND CON
121.6 256.9
RENTON TOWER ★
124.7 (CTAF) 256.9
SEATTLE DEP CON
119.2 284.7

TAKE-OFF MINIMUMS

Rwy 15: NA- ATC.

Rwy 33: Standard with minimum climb of 315' per NM to 800.

TAKE-OFF OBSTACLE NOTES

Rwy 33: Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL, wood piling, trees and terrain beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 33: Climb heading 350°, maintain 3000 expect radar vectors, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing left turn direct PAE VOR/DME, continue climb-in PAE VOR/DME holding pattern to cross PAE VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

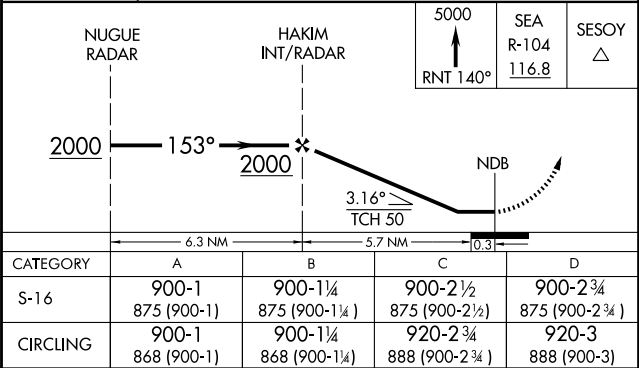
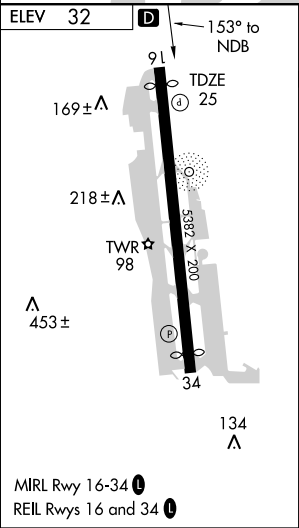
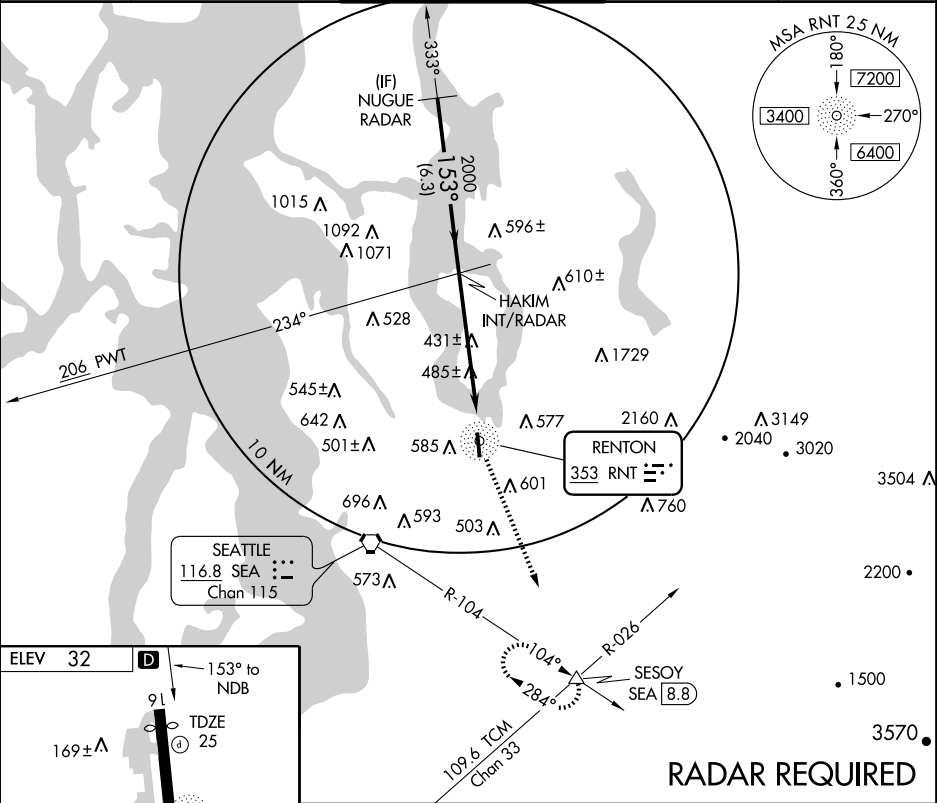
NDB RWY 16
RENTON MUNI (RNT)

NDB RNT	APP CRS	Rwy Idg	5082
353	153°	TDZE	25
		Apt Elev	32

⚠ Circling NA west of Rwy 16-34.
⚠ Visibility reduction by helicopters NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climb to 5000 via 140° bearing from RNT NDB and SEA R-104 to SESOY INT and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER ★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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ATIS 126.95

GND CON

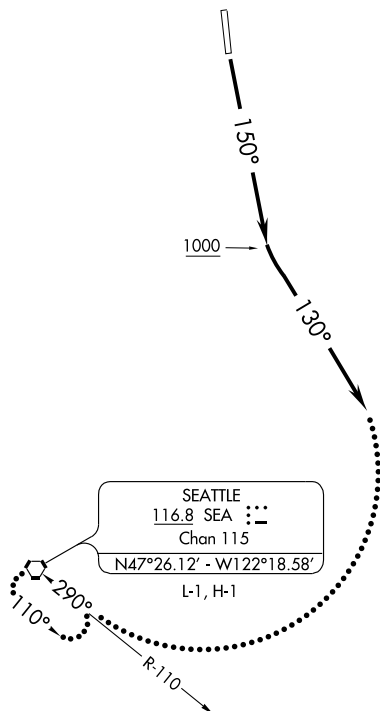
121.6 256.9

RENTON TOWER *

124.7 (CTAF) 256.9

SEATTLE DEP CON

119.2 284.7

TAKE-OFF MINIMUMS

Rwy 15: Standard with a minimum climb of 400' per NM to 800.

Rwy 33: NA- ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 15: Trees, towers, lights and blast shield beginning 186' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and signs beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL.

NOTE: RADAR required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb heading 150° to 1000, then climbing left turn heading 130°, expect radar vectors, maintain 3000 expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing right turn direct SEA VORTAC, continue climb-in SEA VORTAC holding pattern to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS	Rwy Idg	5082
154°	TDZE	25
	Apt Elev	32

RNAV (GPS) Y RWY 16

RENTON MUNI (RNT)

- T** Circling NA west of Rwy 16-34. DME/DME RNP- 0.3 NA.
A Visibility reduction by helicopters NA.
When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climb to 5000 direct CUPAT and via 104° track to SESOY and hold, continue climb-in-hold to 5000.

ATIS
126.95

SEATTLE APP CON
119.2 284.7

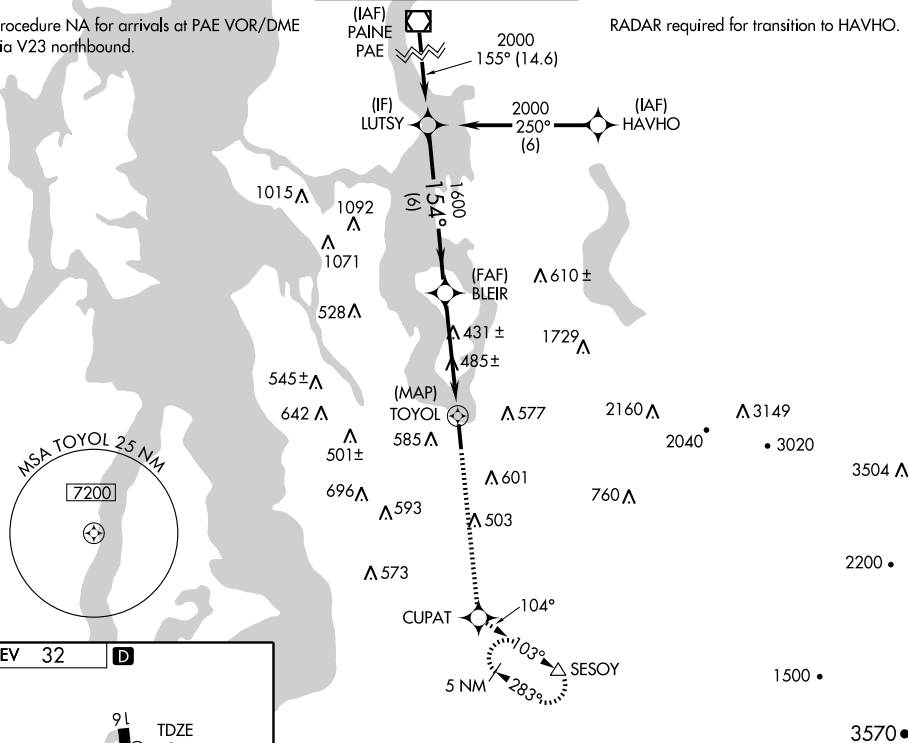
RENTON TOWER★
124.7 (CTAF) **L** 256.9

GND CON
121.6 256.9

UNICOM
122.95

Procedure NA for arrivals at PAE VOR/DME via V23 northbound.

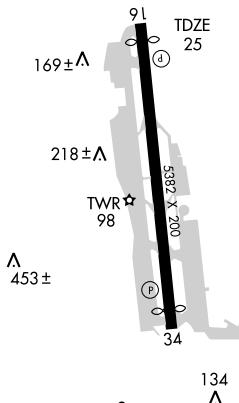
RADAR required for transition to HAVHO.



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 32

D



Procedure

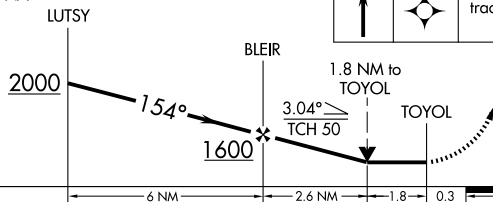
Turn NA

5000

CUPA

104°

SESOY



CATEGORY	A	B	C	D
LNNAV MDA	760-1	735 (800-1)	760-2 735 (800-2)	760-2¼ 735 (800-2¼)
CIRCLING	880-1 848 (900-1)	880-1¼ 848 (900-1¼)	920-2¾ 888 (900-2¾)	920-3 888 (900-3)

MIRL Rwy 16-34 **L**

REIL Rwy 16 and 34 L

WAAS CH 93610 W15A	APP CRS 154°	Rwy Idg 5082 TDZE 25 Apt Elev 32
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RNAV (GPS) Z RWY 16

RENTON MUNI (RNT)

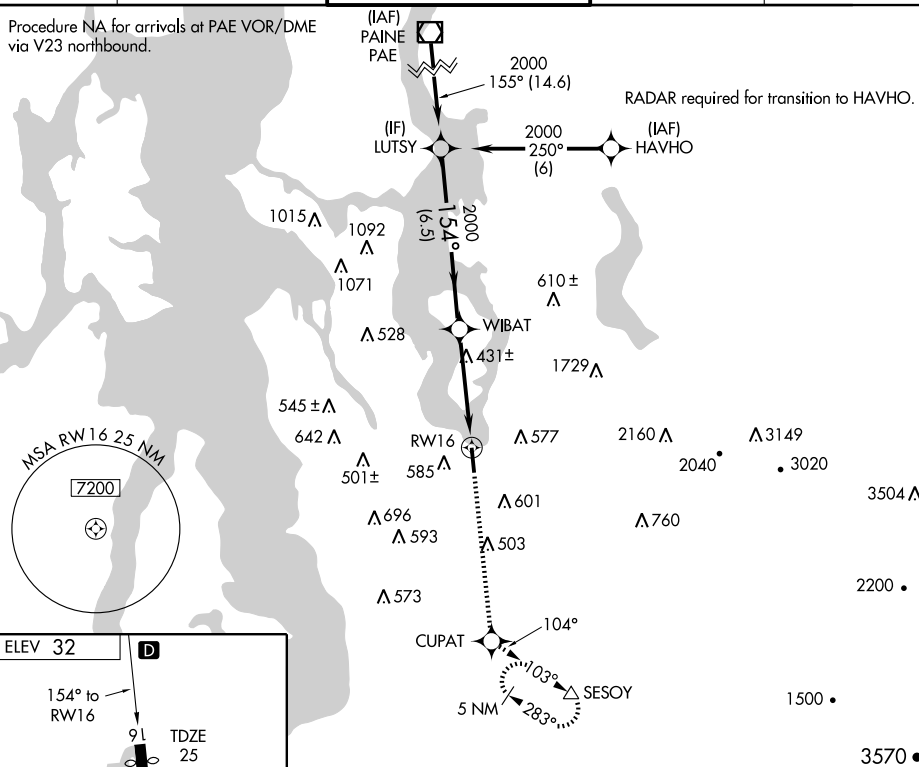


DME/DME RNP-0.3 NA. Circling NA west of Rwy 16-34.
When local altimeter setting not received, use Seattle-Tacoma
Intl altimeter setting.
Circling requires descent on glidepath to CMDA.

MISSED APPROACH: Climb to 5000 direct CUPAT and via 104° track to SESOY and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER* 124.7 (CTAF) 0 256.9	GND CON 121.6 256.9	UNICOM 122.95
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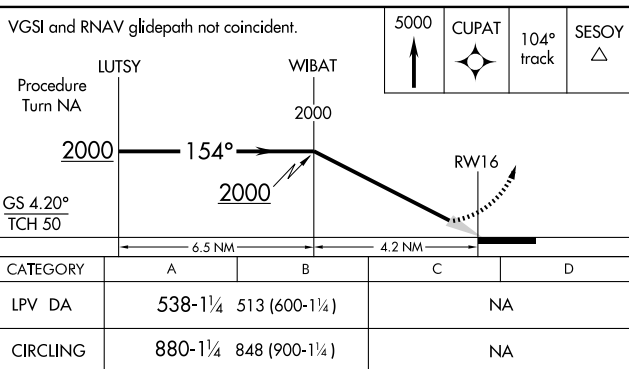
Procedure NA for arrivals at PAE VOR/DME
via V23 northbound.



NW-1. 22 OCT 2009 to 19 NOV 2009

Map of the study area showing the location of the study site (D) relative to the MRL Rwy 16-34 and REIL Rwy 16 and 34. The map includes a scale bar (0 to 1000 ft), a north arrow, and various landmarks such as the TWR (98), TDEZ (25), and various elevation points (169±, 218±, 453±, 134).

VGSI and RNAV glidepath not coincident.



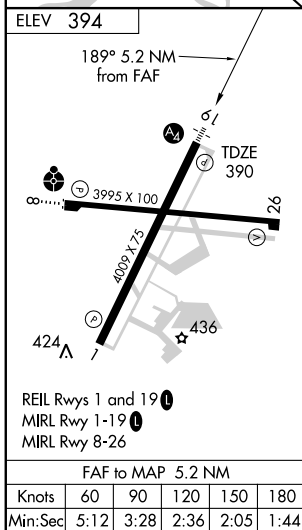
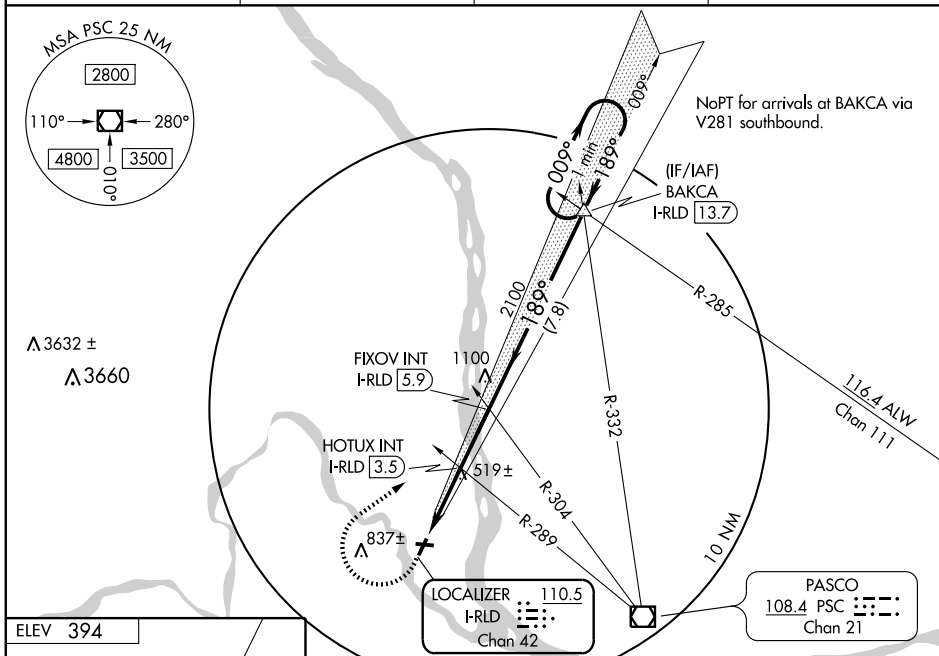
LOC/DME I-RLD 110.5 Chan 42	APP CRS 189°	Rwy Idg TDZE Apt Elev	4009 390 394
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LOC RWY 19

RICHLAND (RLD)

<p>NA</p> <p>Visibility reduction by helicopters NA. VDP NA when using Pasco altimeter setting. When local altimeter setting not received, use Pasco altimeter setting and increase all MDA 40 feet. Inoperative table does not apply to S-19 all Cats, and HOTUX fix minimums S-19 Cat C.</p>	<p>MALS</p> <p></p>	<p>MISSED APPROACH: Climbing right turn to 4000 via heading 038° and I-RLD NE course to BAKCA INT/I-RLD 13.7 DME and hold.</p>
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AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF)
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4000

038°

I-RLD NE Crs

BAKCA △

HOTUX INT I-RLD 3.5

FIXOV INT I-RLD 5.9

BAKCA I-RLD 13.7

One Minute Holding Pattern

009° →

← 189°

4000

1320

2100

189°

1.2 NM

1.6 NM

2.4 NM

7.8 NM

3.05°

TCH 45

VGSI and descent angles not coincident.

CATEGORY	A		B	C	D
S-19	1320-1¼ 930 (1000-1¼)			1320-2¾ 930 (1000-2¾)	1320-3 930 (1000-3)
CIRCLING	1320-1¼ 926 (1000-1¼)			1320-2¾ 926 (1000-2¾)	1320-3 926 (1000-3)
HOTUX FIX MINIMUMS					
S-19	800-¾ 410 (500-¾)			800-1¼ 410 (500-1¼)	1100-2¼ 710 (800-2¼)
CIRCLING	980-1 586 (600-1)	1000-1 606 (700-1)		1000-1¾ 606 (700-1¾)	1140-2½ 746 (800-2½)

DME/DME-RNP-0.3 NA.
 Inoperative table does not apply to Cat. C.

MALS

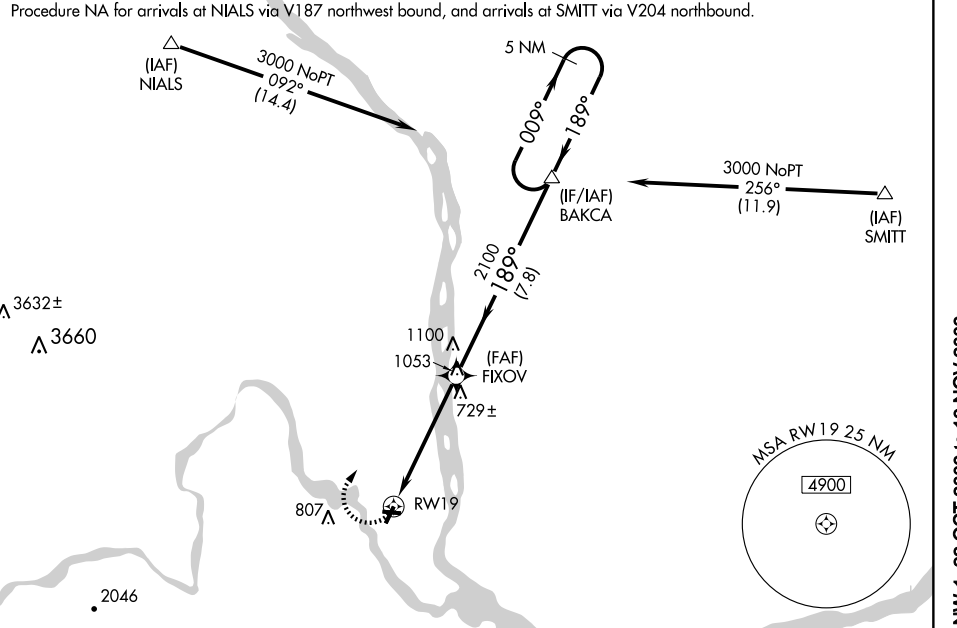
MISSED APPROACH: Climbing right turn to 3000 direct BAKCA and hold.

AWOS-3
132.675

CHINOOK APP CON*
128.75 377.2

CLNC DEL
122.4

UNICOM
122.7 (CTAF)



3000

BAKCA

△

VGSI and descent angles not coincident.

BAKCA

5 NM Holding Pattern

Profile view details:

- From 3000 to 2100: 189°, 5.2 NM.
- From 2100 to RW19: 189°, 7.8 NM.
- At RW19: 3.05° TCH 45.

CATEGORY	A	B	C	D
RNAV MDA	1000-3/4 610 (700-3/4)	1000-13/4 610 (700-13/4)	1180-21/2 790 (800-21/2)	1180-21/2 786 (800-21/2)
CIRCLING	1000-1 606 (700-1)	1000-13/4 606 (700-13/4)	1180-21/2 786 (800-21/2)	

ELEV 394

189° to RW19

REIL Rwy 1 and 19

MRL Rwy 1-19

MRL Rwy 8-26

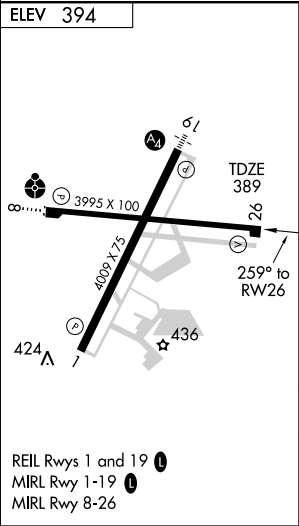
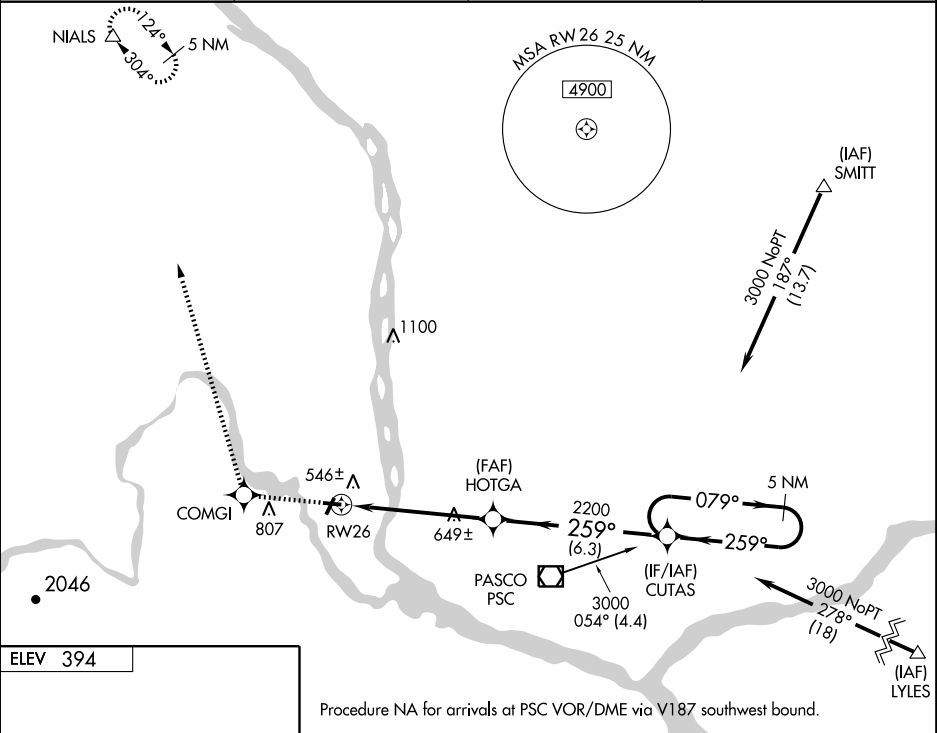
NW-1. 22 OCT 2009 to 19 NOV 2009

WAAS Chan 50299 W26A	APP CRS 259°	Rwy Idg TDZE Apt Elev	3995 389 394
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RNAV (GPS) RWY 26

RICHLAND (RLD)

 DME/DME RNP-0.3 NA. Baro-VNAV NA.		MISSED APPROACH: Climb to 3500 direct COMGI and via 327° track to NIALS and hold.	
AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF)



Procedure NA for arrivals at PSC VOR/DME via V187 southwest bound.

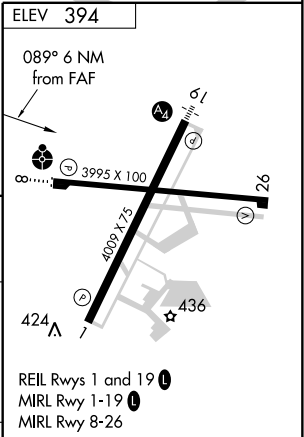
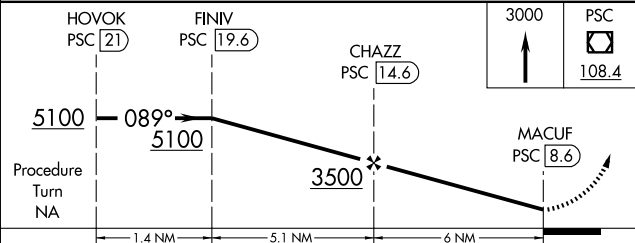
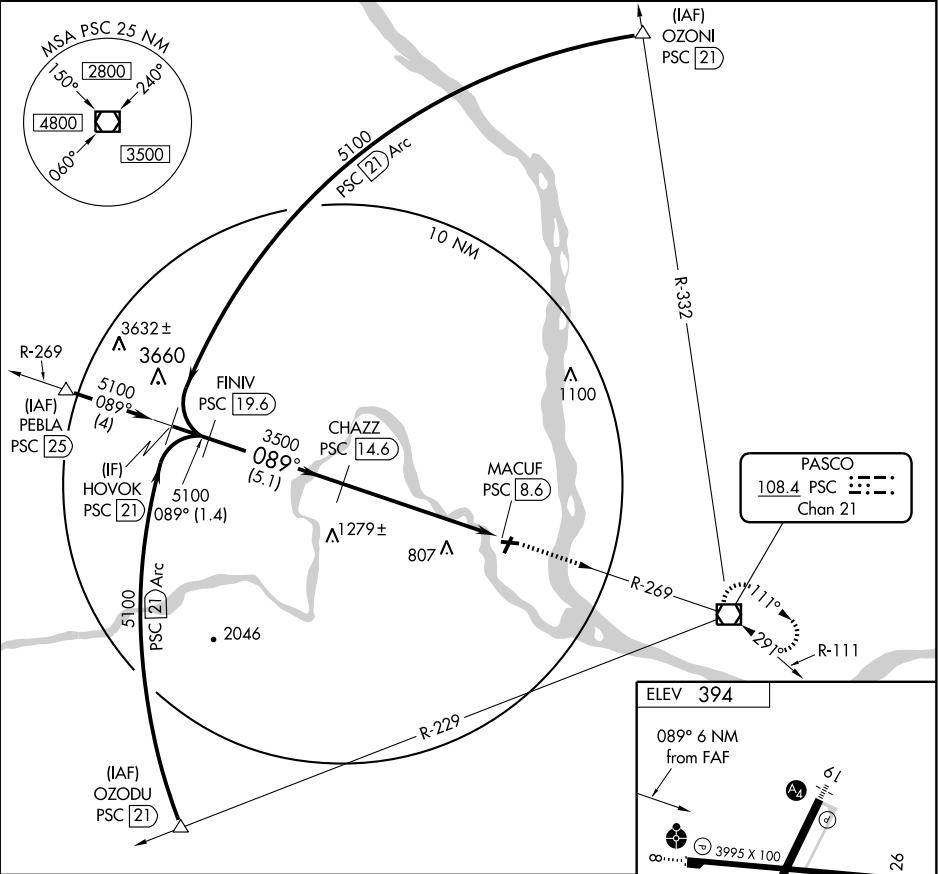
3500	COMGI	327° track	NIALS	5 NM Holding Pattern
CATEGORY	A	B	C	D
LPV DA	676-1 287 (300-1)			
LNAV/VNAV DA	945-2 556 (600-2)			
LNAV MDA	920-1 531 (600-1)		920-1½ 531 (600-1½)	920-1¾ 531 (600-1¾)
CIRCLING	1000-2 606 (700-2)		1140-2½ 746 (800-2½)	

VOR/DME-A
RICHLAND (RLD)

VOR/DME PSC 108.4 Chan 21	APP CRS 089°	Rwy Idg TDZE Apt Elev	N/A N/A 394
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MISSED APPROACH: Climb to 3000 direct PSC VOR/DME and hold.

AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	1280-1¼	886 (900-1¼)	1280-2¾	886 (900-2¾)	1280-3	886 (900-3)				

VOR/DME PSC 108.4 Chan 21	APP CRS 269°	Rwy Idg 3995 TDZE 389 Apt Elev 394
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VOR RWY 26
RICHLAND (RLD)



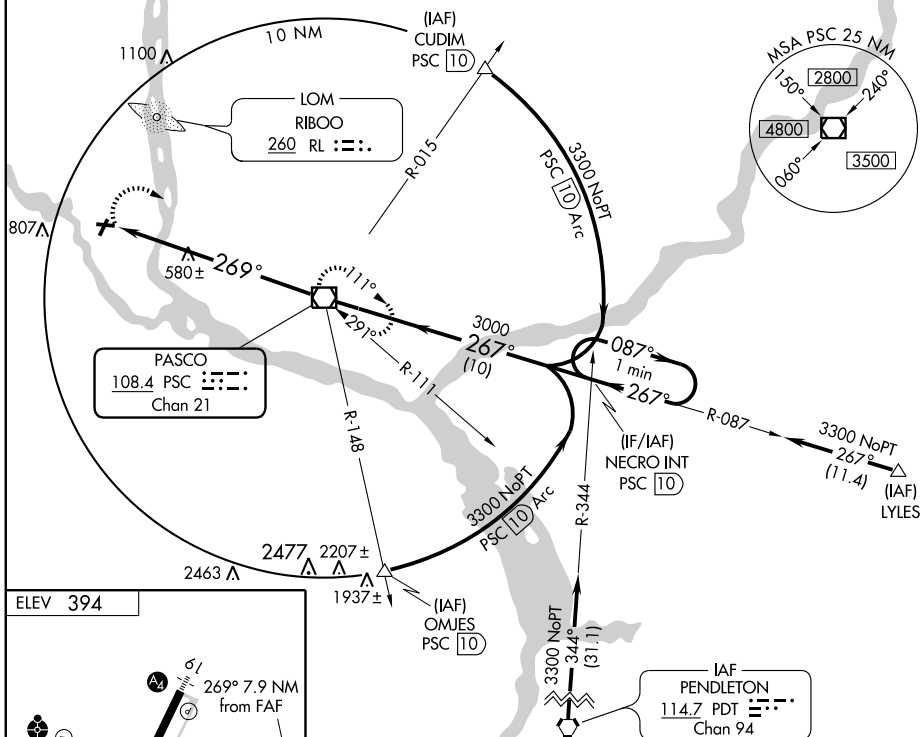
MISSED APPROACH: Climbing right turn to 3000 direct PSC VOR/DME and hold.

AWOS-3
132.675

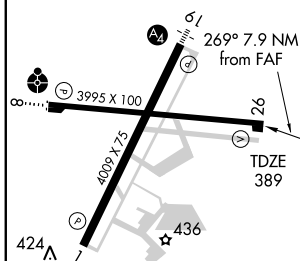
CHINOOK APP CON★
128.75 377.2

CLNC DEL
122.4UNICOM
122.7 (CTAF) **L**

Procedure NA for arrivals on PDT VORTAC airway radials 290 CW 029.



ELEV 394



REIL Rwy 1 and 19 **L**
MIRL Rwy 1-19 **L**
MIRL Rwy 8-26

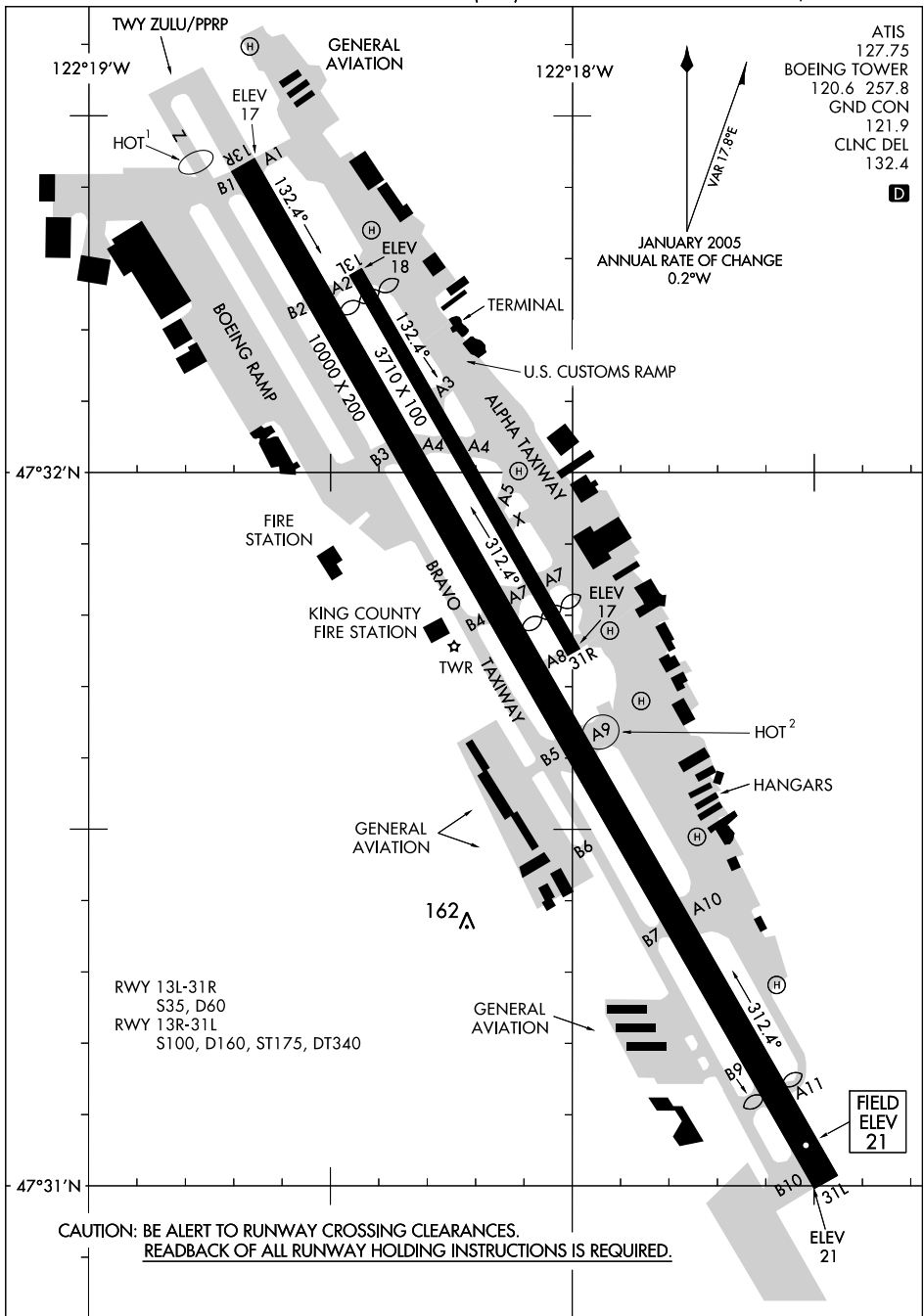
FAF to MAP 7.9 NM

Knots	60	90	120	150	180
Min:Sec	7:54	5:16	3:57	3:10	2:38

Diagram illustrating a One Minute Holding Pattern. The pattern starts at 3000 ft. A turn to 269° is indicated by a curved arrow and a dashed line. The turn is labeled "PSC 7.9" and "3.05° TCH 50". The distance from the start to the turn is 7.9 NM. The turn is labeled "VOR/DME". The altitude at the turn is 3000 ft. The turn is labeled "269°". The distance from the turn to the end of the pattern is 10 NM. The end of the pattern is labeled "NECRO INT PSC 10" and "One Minute Holding Pattern". The altitude at the end of the pattern is 3300 ft. The turn is labeled "087°" and "267°".

AIRPORT DIAGRAM

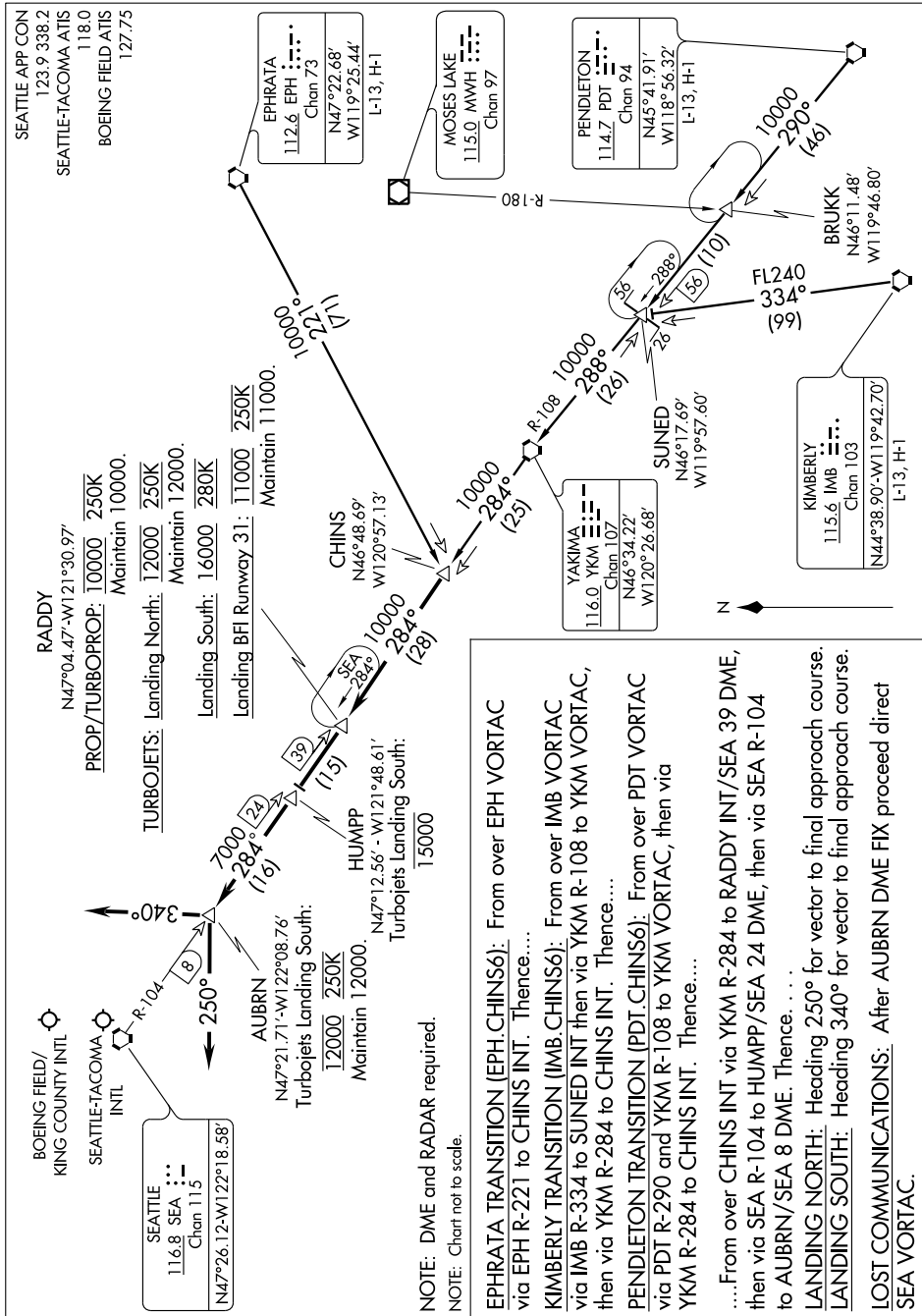
SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)
AL-384 (FAA) SEATTLE, WASHINGTON



NW-1, 22 OCT 2009 to 19 NOV 2009

ST-582 (FAA)

SEATTLE, WASHINGTON



SEATTLE APP CON

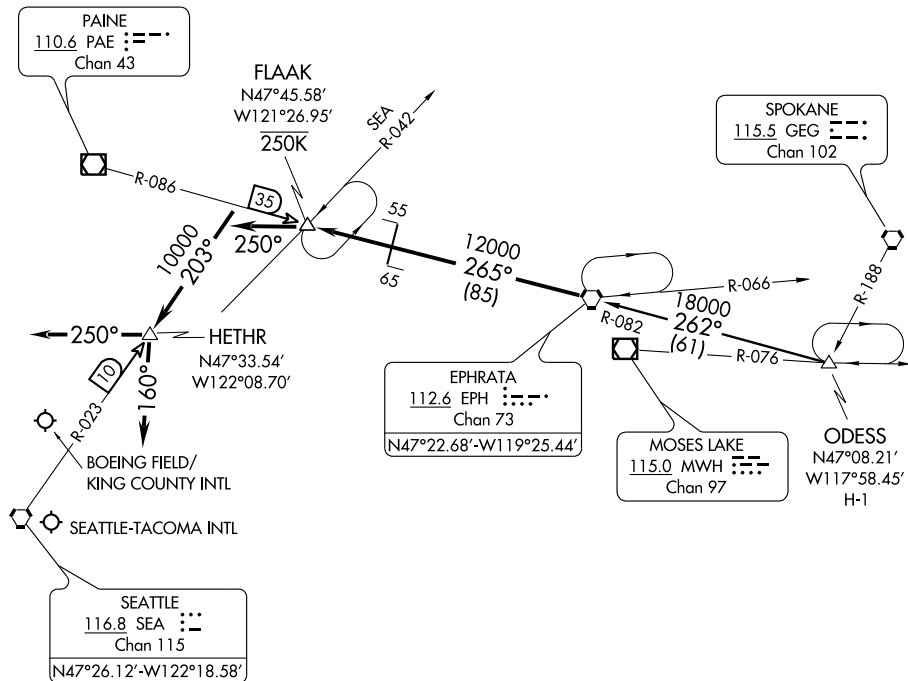
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR INT, thence....

LANDING NORTH: Heading 160° for vector to final approach course;

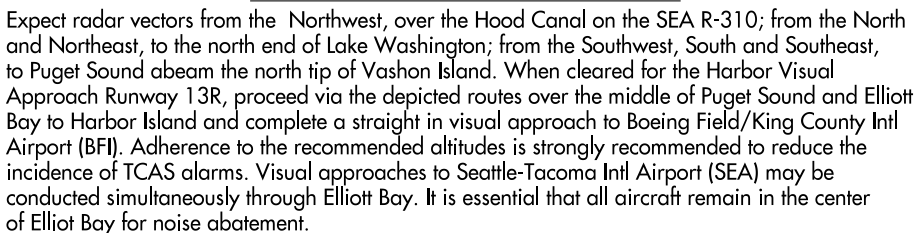
LANDING SOUTH: Heading 250° for vector to final approach course.

LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.



SEATTLE, WASHINGTON

132.4



ILS RWY 13R

LOC/DME I-BFI	APP CRS	Rwy Idg	9120
110.9	130°	TDZE	17
Chan 46		Apt Elev	21

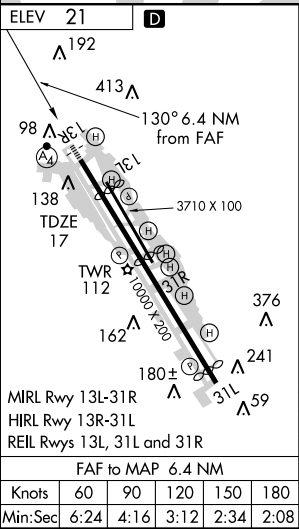
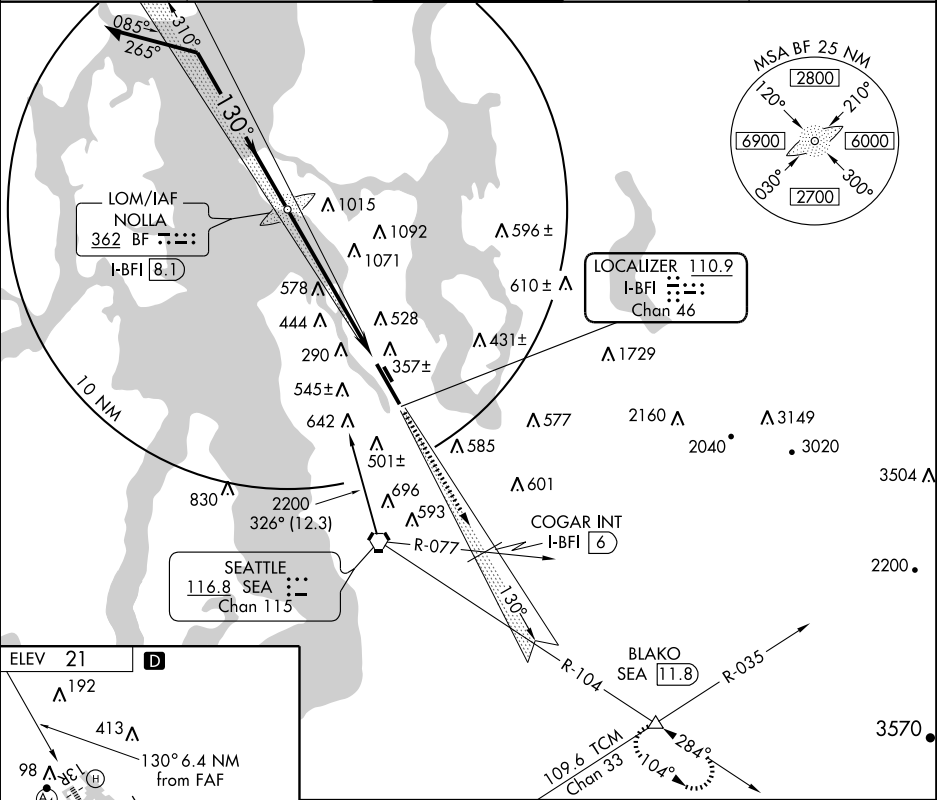
SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

⚠ Circling requires descent on GS to MDA.
⚠ Inoperative table does not apply.

MALSF  **A4**

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/
I-BFI 6 DME/SEA R-077, then continue climb to 5000 via I-BFI SE
course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold.

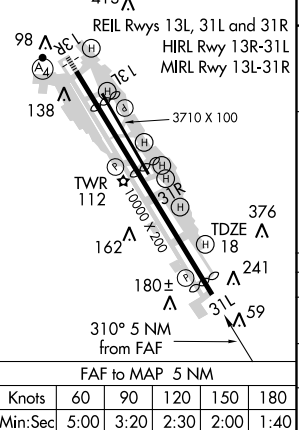
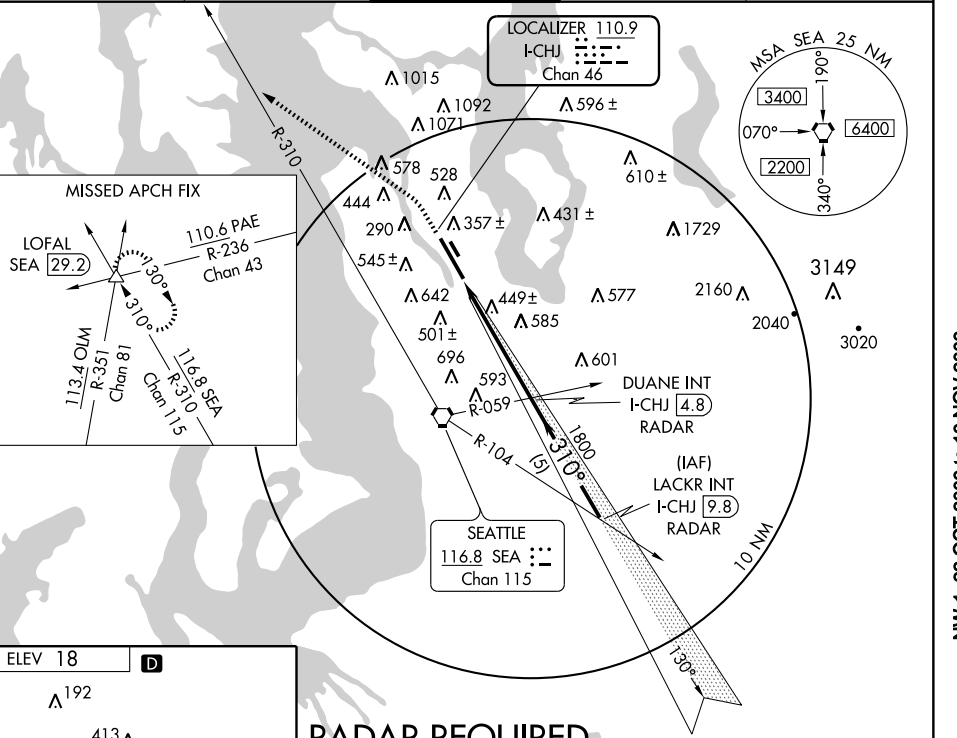
ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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Remain within 10 NM	NOLLA LOM I-BFI 8.1	2000 I-BFI SE CRS	COGAR I-BFI 6	5000 I-BFI SE CRS	SEA R-104 116.8	BLAKO Δ
2200	2117	2200	2200	2200	2200	2200
GS 3.00° TCH 39	6.4 NM					
CATEGORY	A	B	C	D		
S-ILS 13R	283/50 266 (300-1)					
CIRCLING	780-1 762 (800-1)	840-1¼ 822 (900-1¼)	900-2½ 879 (900-2½)	960-3 942 (1000-3)		

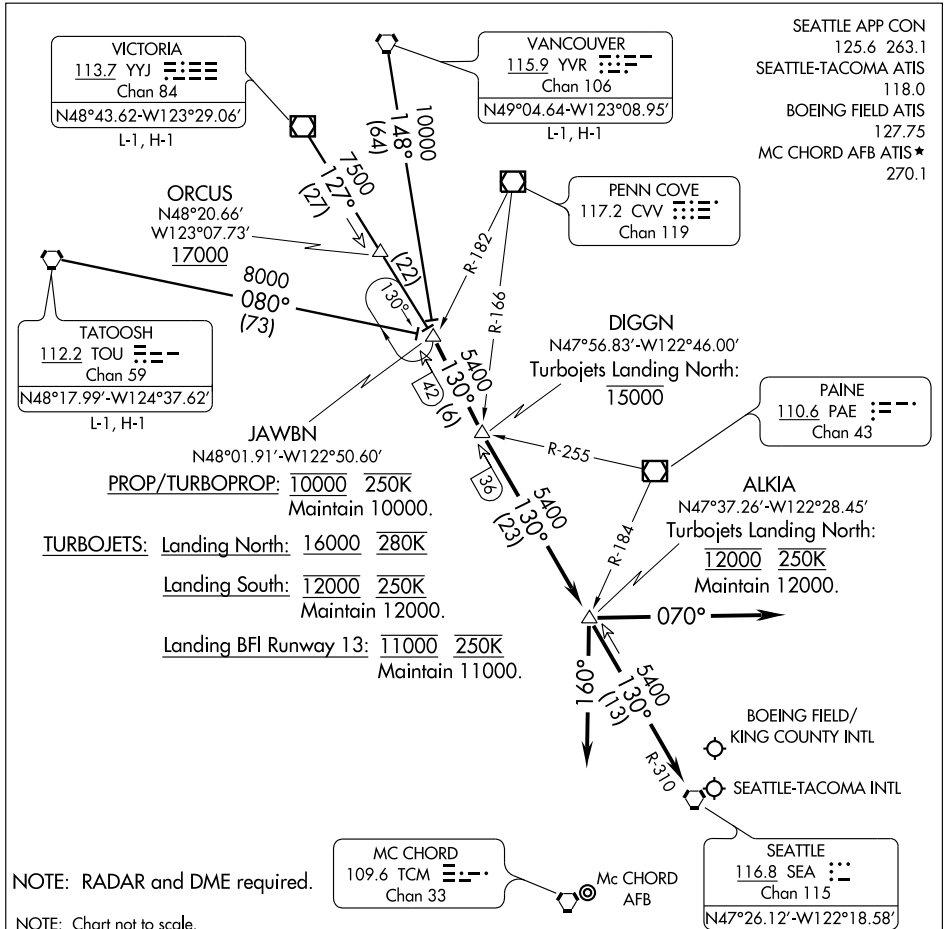
MISSED APPROACH: Climb to 700 then climbing left turn to 6000 via heading 285° and SEA R-310 to LOFAL Int/SEA 29.2 DME and hold.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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RADAR REQUIRED				
ELEV 18	D	700 ↑	6000 ↖ 285°	SEA R-310 116.8
		LOFAL △	DUANE INT I-CHJ [4.8] RADAR	LACKR INT I-CHJ [9.8] RADAR
		Use I-CHJ DME when on LOC course.		
		1739 *1800 1800 310° 2600 GS 3.10° TCH 60		
		5 NM 5 NM		
CATEGORY	A	B	C	D
S-ILS 31L	410-1¼ 392 (400-1¼)			
S-LOC 31L	700-1 682 (700-1)		700-2 682 (700-2)	700-2¼ 682 (700-2¼)
CIRCLING	780-1¼ 762 (800-1¼)		840-1¼ 822 (900-1¼)	960-3 942 (1000-3)
			860-2½ 842 (900-2½)	

NW-1, 22 OCT 2009 to 19 NOV 2009



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KENT FOUR DEPARTURE

SL-384 (FAA)

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)

SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.67'
L-1

TAKE-OFF OBSTACLES:
463' Tree
288' Tree
DEPARTURE OBSTACLES:
620' Tower
558' Tree
562' Tank

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

McCHORD
109.6 TCM
Chan 33
N47°08.86'-W122°28.50'
L-1, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

TAKE-OFF Rwy 13L/R: Standard with a minimum climb of 380' per NM to 700'.

NOTE: No left turns authorized until leaving 1000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing right turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

LOC/DME I-BFI	APP CRS	Rwy Idg	9120
110.9	130°	TDZE	14
Chan 46		Apt Elev	18

▼

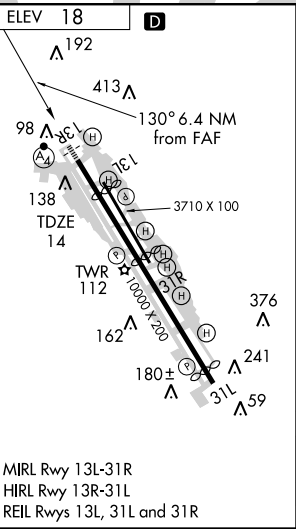
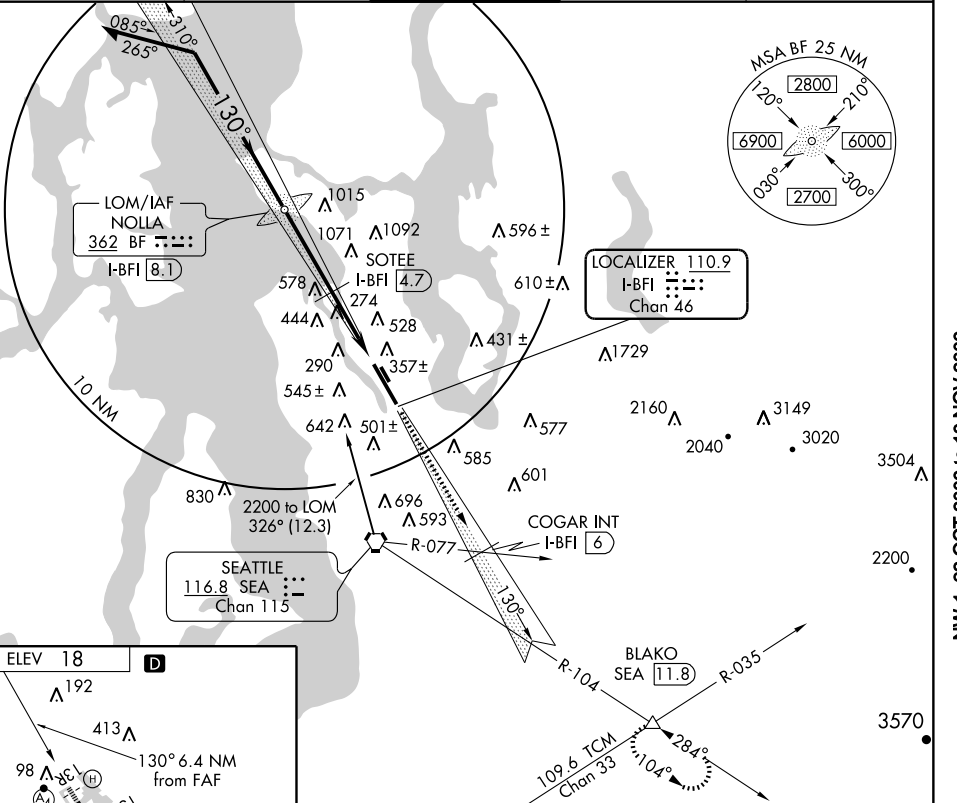
▲

Inoperative table does not apply.

MALS F

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/ I-BFI 6 DME, then continue climb to 5000 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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Remain within 10 NM	NOLLA LOM I-BFI 8.1	2000 I-BFI SE CRS	COGAR I-BFI 6	5000 I-BFI SE CRS	SEA R-104 116.8	BLAKO
2200	2200	SOTEE I-BFI 4.7	1080	I-BFI 1.7		
VGSI and descent angles not coincident.						
3.4 NM 3 NM						
CATEGORY	A	B	C	D		
S-LOC 13R	540/50	526 (600-1)	540-1½ 526 (600-1½)	540-1¾ 526 (600-1¾)		
CIRCLING	780-1 762 (800-1)	840-1¼ 822 (900-1¼)	860-2½ 842 (900-2½)	960-3 942 (1000-3)		

NEEDLE SIX DEPARTURE

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)
SL-384 (FAA)

SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

TAKE-OFF OBSTACLES:
192' Flagpole
350' Tower

DEPARTURE OBSTACLES:
1071' Building
578' Towers

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.66'
L-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF Rwy 31L/R: Standard with a minimum climb of
350' per NM to 1300'.

NOTE: No right turns authorized until leaving 1300'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 31L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing left turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75

BOEING FIELD/
KING COUNTY INTL

SEATTLE-TACOMA INTL

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'

MC CHORD
109.6 TCM
Chan 33

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'

PROP/TURBOPROP: 10000 250K
Maintain 10000.

TURBOJETS: Landing North: 12000 250K
Maintain 12000.

Landing South: 17000 280K

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19'-W122°58.69'
L-1, H-1

NOTE: Chart not to scale.

NOTE: RADAR and DME required.

BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

APP CRS	Rwy Idg	9120
130°	TDZE	18
	Apt Elev	21

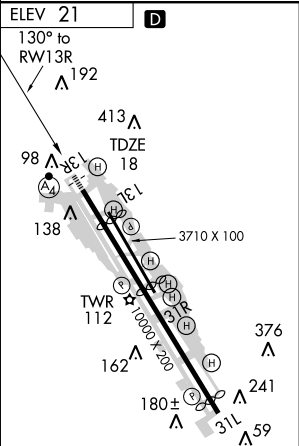
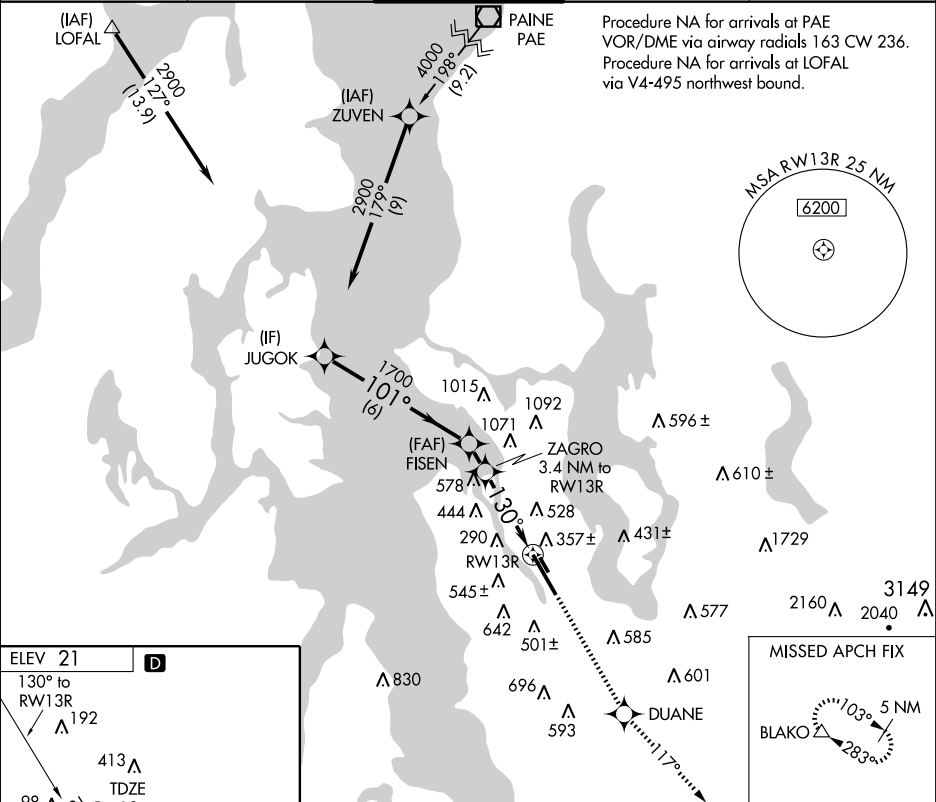
RNAV (GPS) Y RWY 13R

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFT)

T Circling to Rwy 13L/31R NA at night.
A Inoperative table does not apply.
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.

MALSF
MISSED APPROACH: Climb to 6400 direct DUANE and via 117° track to BLAKO and hold, continue climb-in-hold to 6400.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R


	JUGOK	FISEN	ZAGRO	DUANE	BLAKO
	2900	1700	1071	6400	593
	101°	130°	117°	117°	117°
	6 NM	1.1 NM	1.4 NM	2 NM	2 NM
CATEGORY	A	B	C	D	
LNAV MDA	720/50	703 (700-1)	720-2 703 (700-2)	720-2¼ 703 (700-2¼)	
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2¾ 879 (900-2¾)	960-3 939 (1000-3)	

APP CRS 130°	Rwy Idg 9120 TDZE 18 Apt Elev 21
------------------------	---

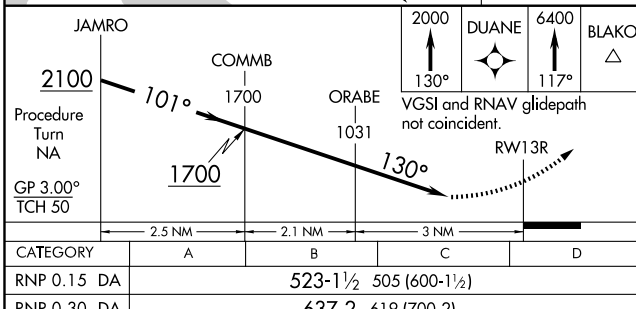
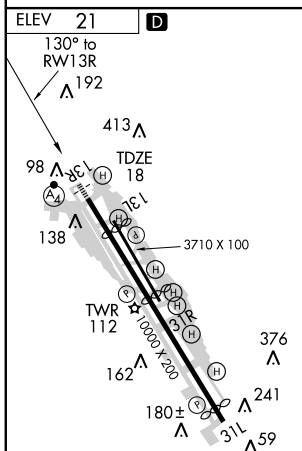
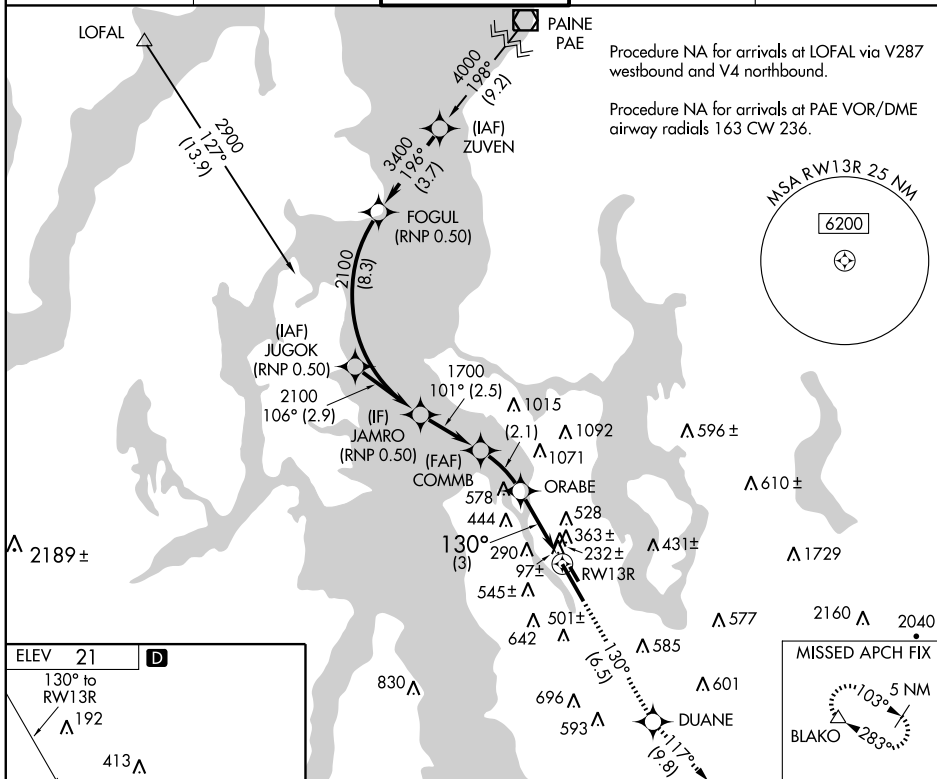
RNAV (RNP) Z RWY 13R

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)

- T** GPS and RF required. For uncompensated Baro-VNAV systems, procedure NA below -3°C (26°F) or above 48°C (119°F).
- A** For inoperative MALSF, increase RNP 0.15 visibility to 1¾, RNP 0.30 to 2¼.

MALSF 	MISSED APPROACH: Climb to 2000 via 130° track to DUANE then climb to 6400 via 117° track to BLAKO and hold. Continue climb-in-hold to 6400.
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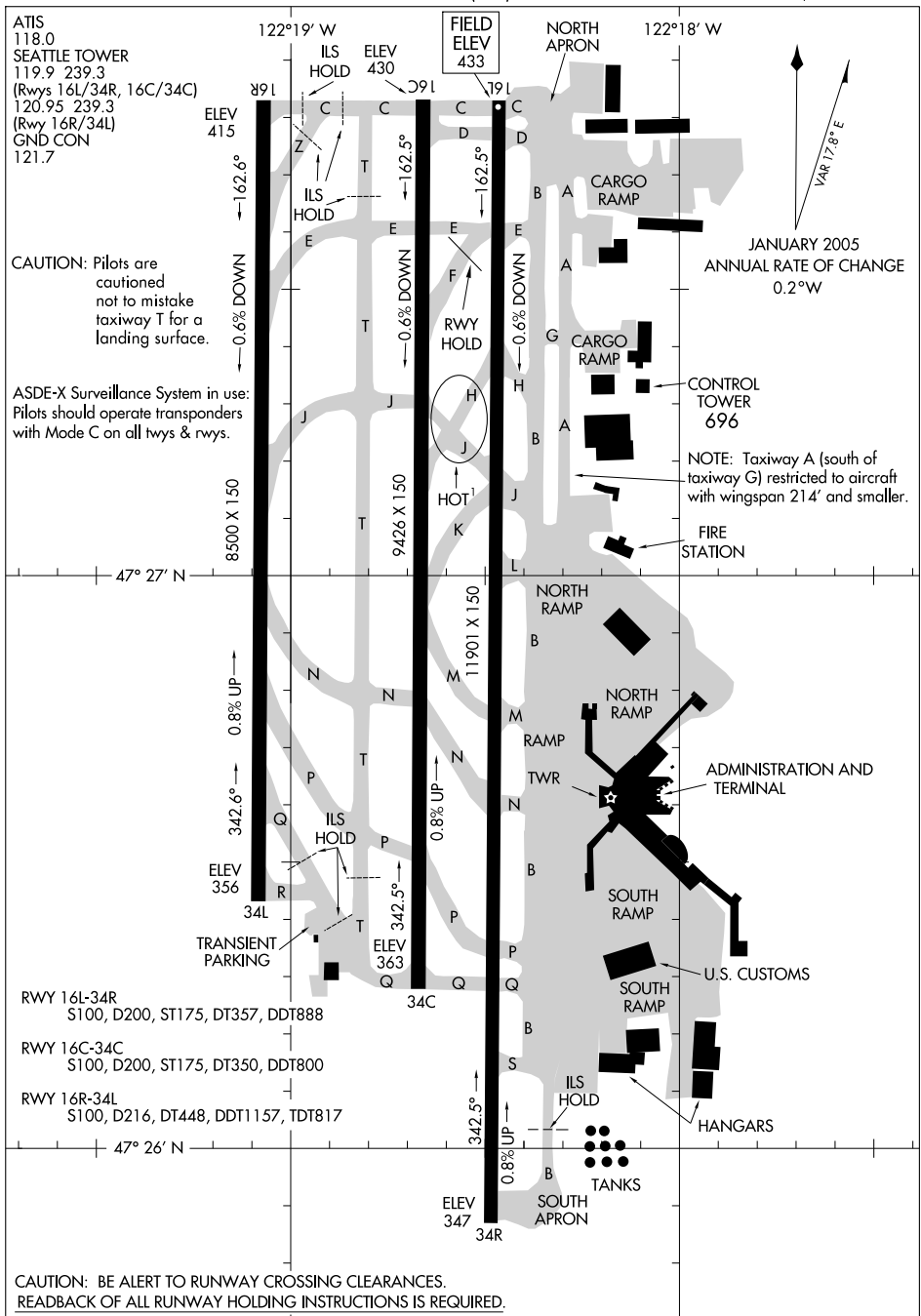
ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



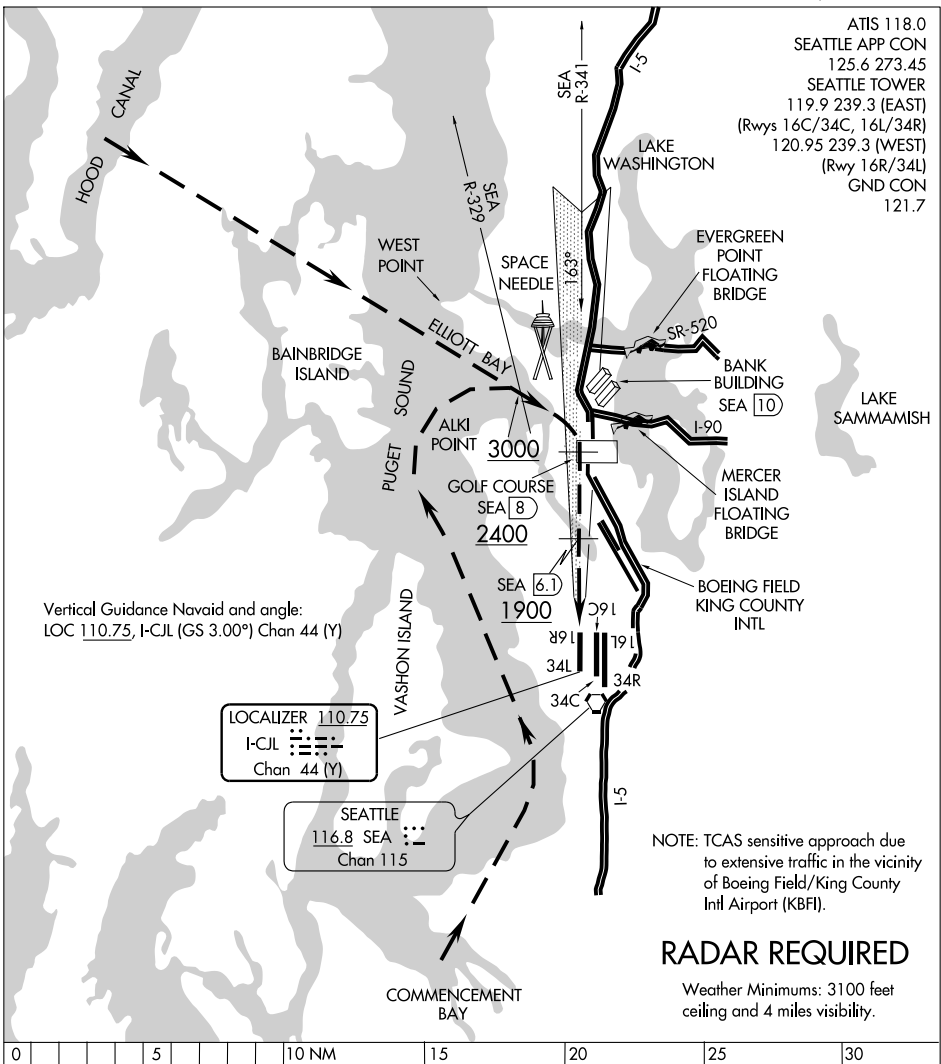
NW-1. 22 OCT 2009 to 19 NOV 2009

ALKI VISUAL RWY 16R

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ALKI VISUAL APPROACH RWY 16R

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Alki Visual Runway 16R Approach. When cleared for an Alki Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16R Localizer/SEA R-341 on Runway 16R extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

BANGR SIX DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ARRIE TRANSITION (BANGR6.ARRIE)

PANGL TRANSITION (BANGR6.PANGL)

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

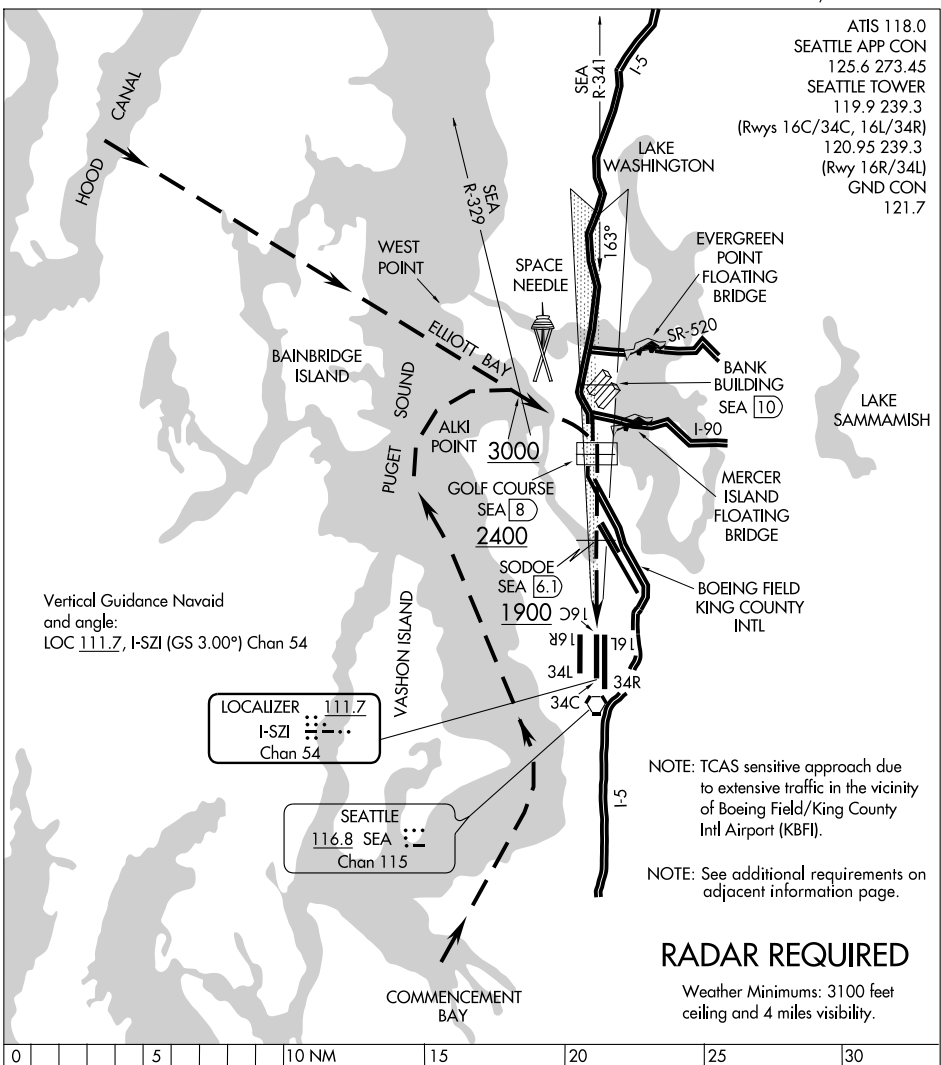
Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

BAY VISUAL RWY 16C

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



BAY VISUAL APPROACH RWY 16C

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for a Bay Visual Runway 16C Approach. When cleared for a Bay Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16C Localizer/SEA R-341 on Runway 16C extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

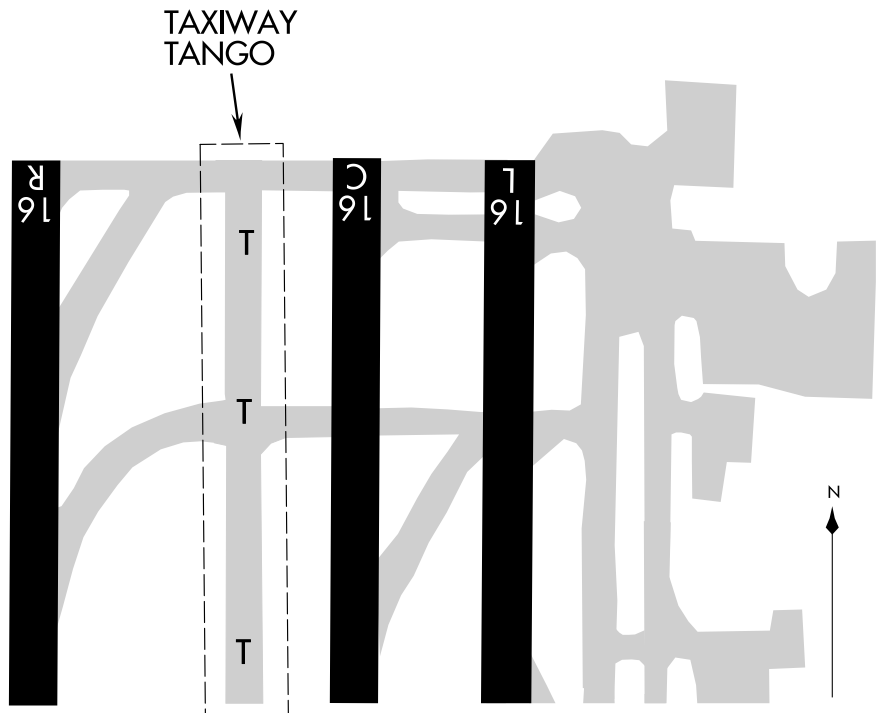
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

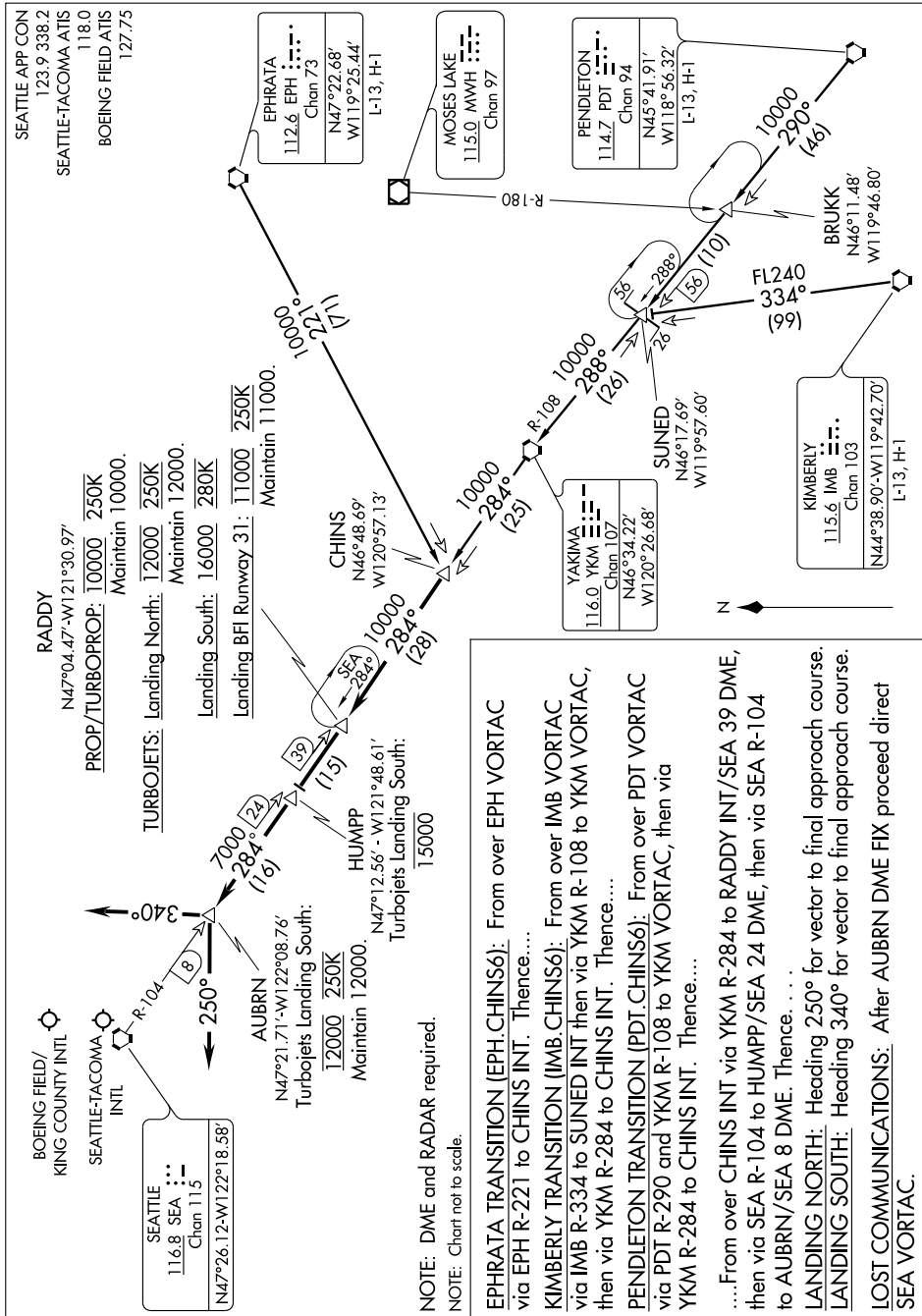
RECOMMENDATION:

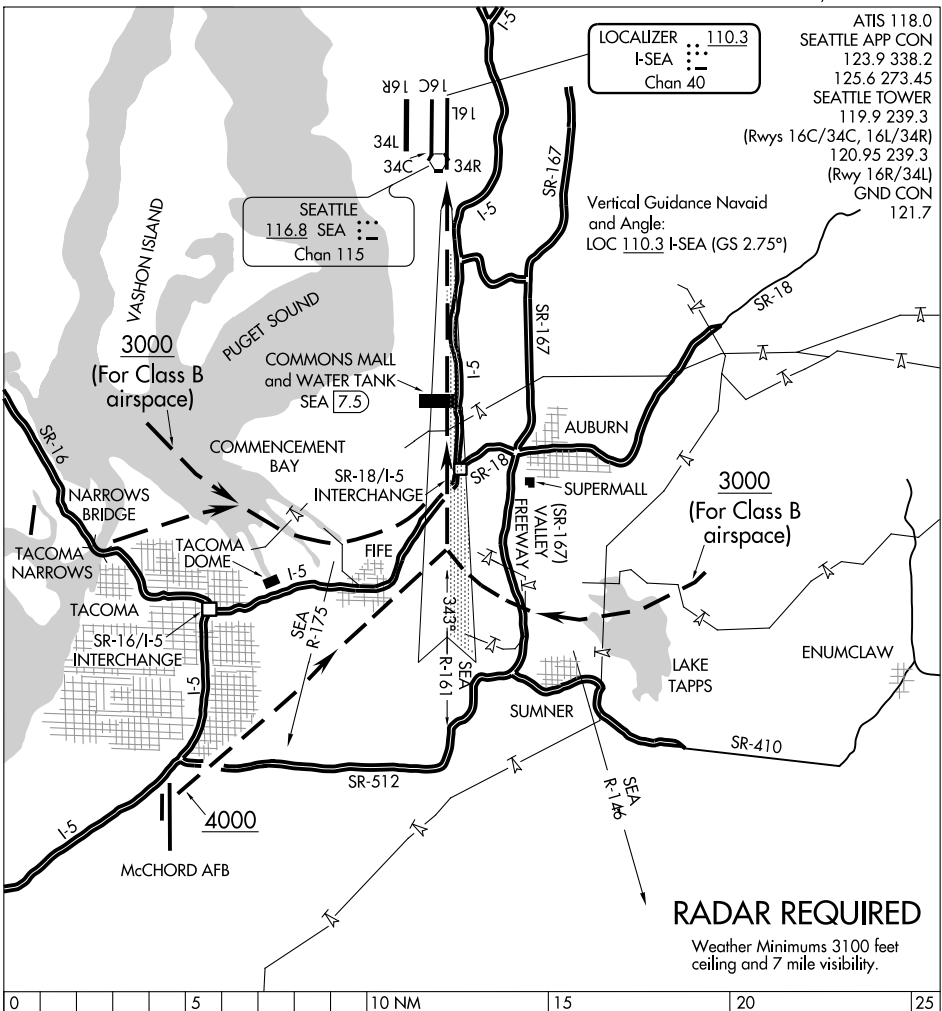
Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.



ST-582 (FAA)

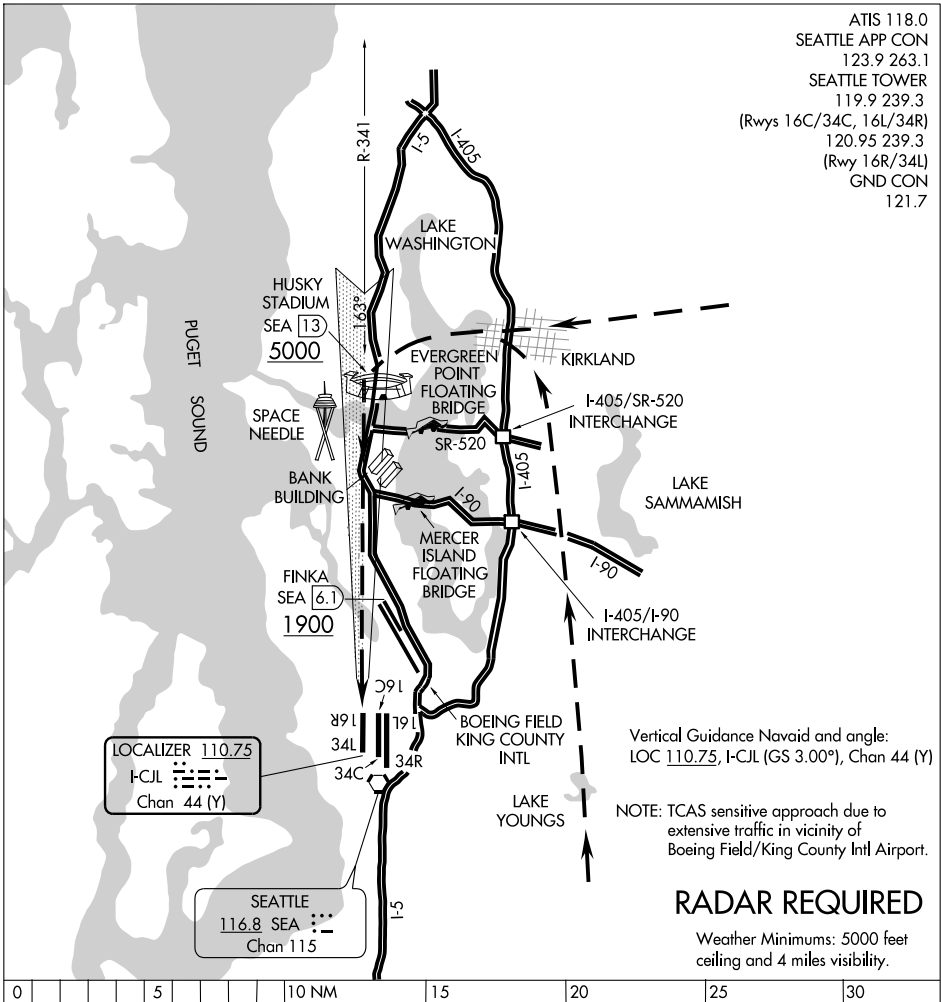
SEATTLE, WASHINGTON





COMMONS VISUAL APPROACH RWY 34R

When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tapps for a Commons Visual Runway 34R Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34R. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to the runway.



DAWG VISUAL APPROACH RWY 16R

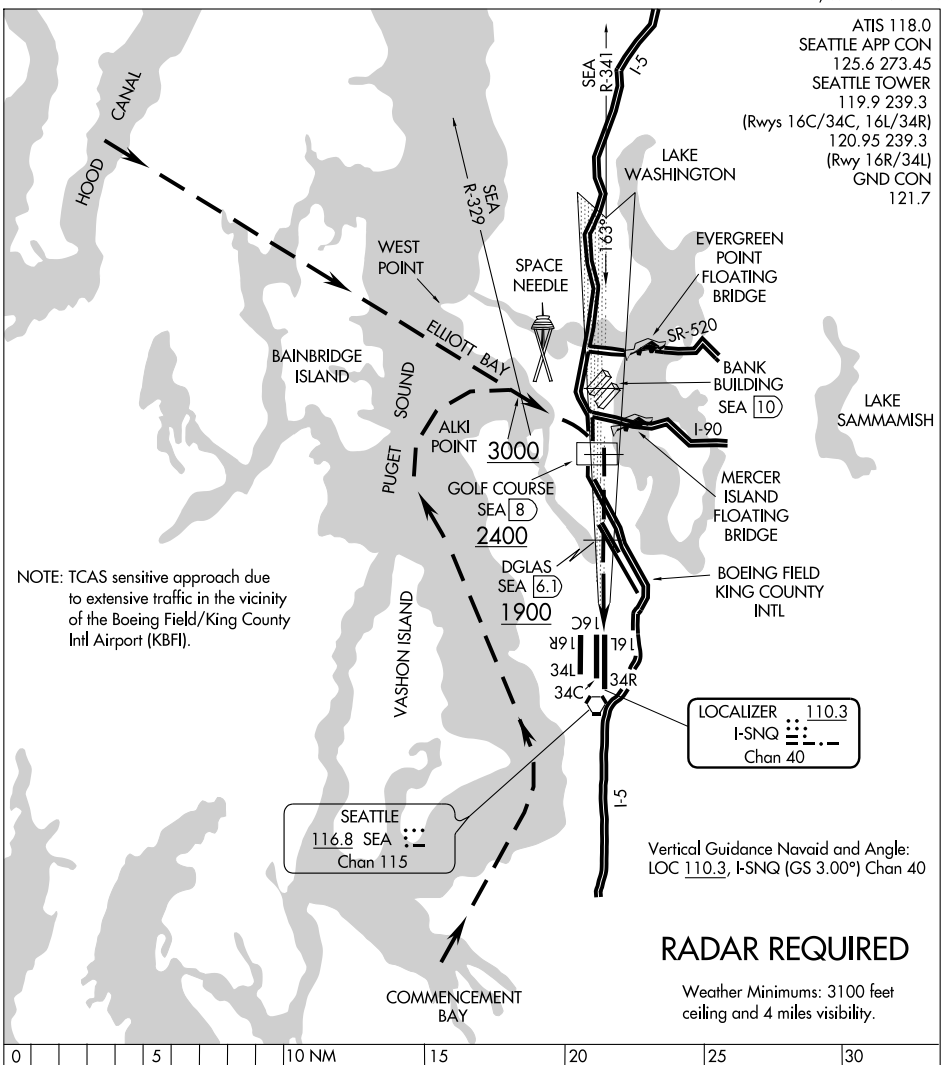
When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Dawg Visual Runway 16R Approach. When cleared for a Dawg Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16R localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

ELLIOTT VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ELLIOTT VISUAL APPROACH RWY 16L

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Elliott Visual Runway 16L Approach. When cleared for an Elliott Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the 16L Localizer/SEA R-341 on Runway 16L extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitude shown at the visual checkpoints or associated DME/fix positions.

ELMAA EIGHT DEPARTURE

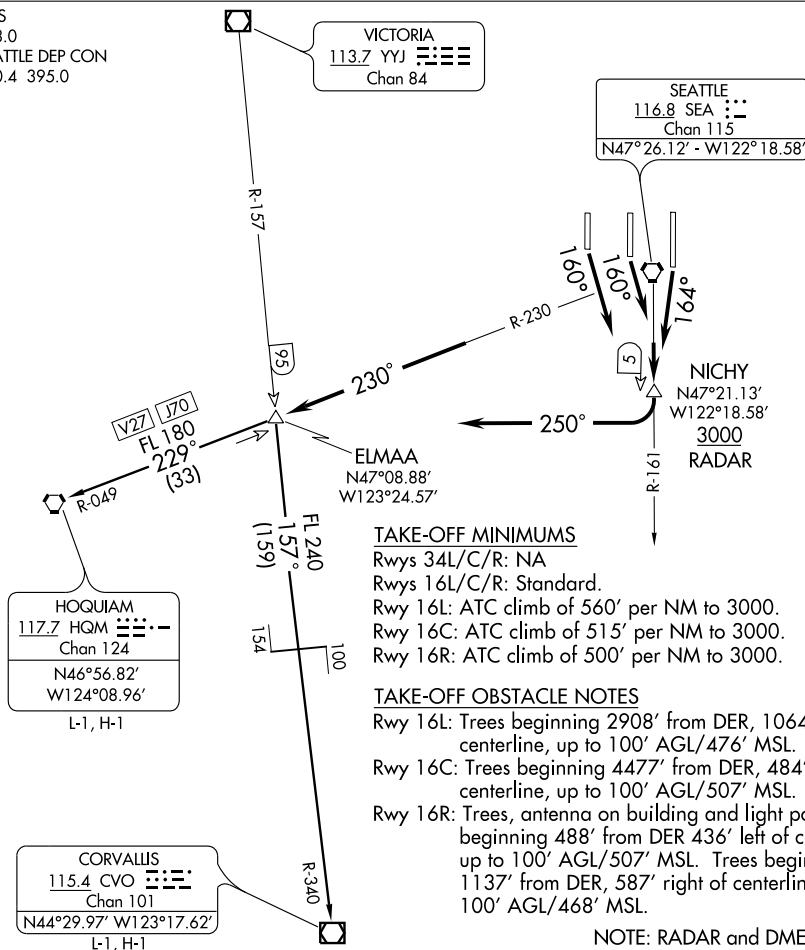
SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

VICTORIA
113.7 YYJ
Chan 84

SEATTLE
116.8 SEA
Chan 115
N47°26.12' - W122°18.58'



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161, thence. . .

. . . to cross NICHY/5 DME/RADAR at or above 3000, then right turn heading 250° to intercept SEA R-230 to ELMAA INT, then via (transition/assigned route), expect filed altitude/flight level 15 NM from SEA.

CORVALLIS TRANSITION (ELMAA8.CVO): From over ELMAA INT via YYJ R-157 and CVO R-340 to CVO VOR/DME.

HOQUIAM TRANSITION (ELMAA8.HQM): From over ELMAA INT via HQM R-049 to HQM VORTAC.

SEATTLE APP CON

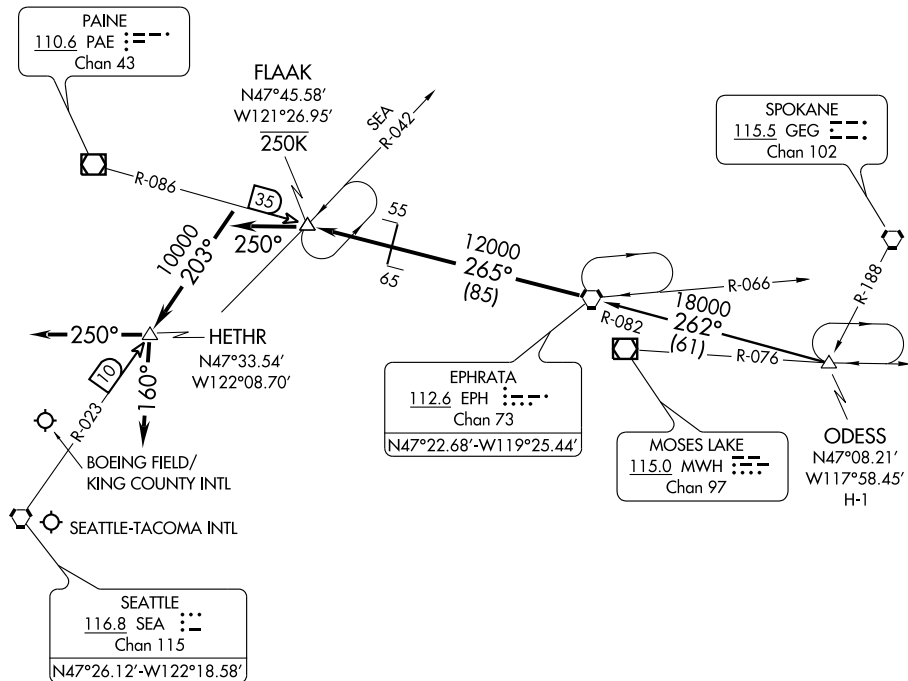
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR INT, thence....

LANDING NORTH: Heading 160° for vector to final approach course;

LANDING SOUTH: Heading 250° for vector to final approach course.

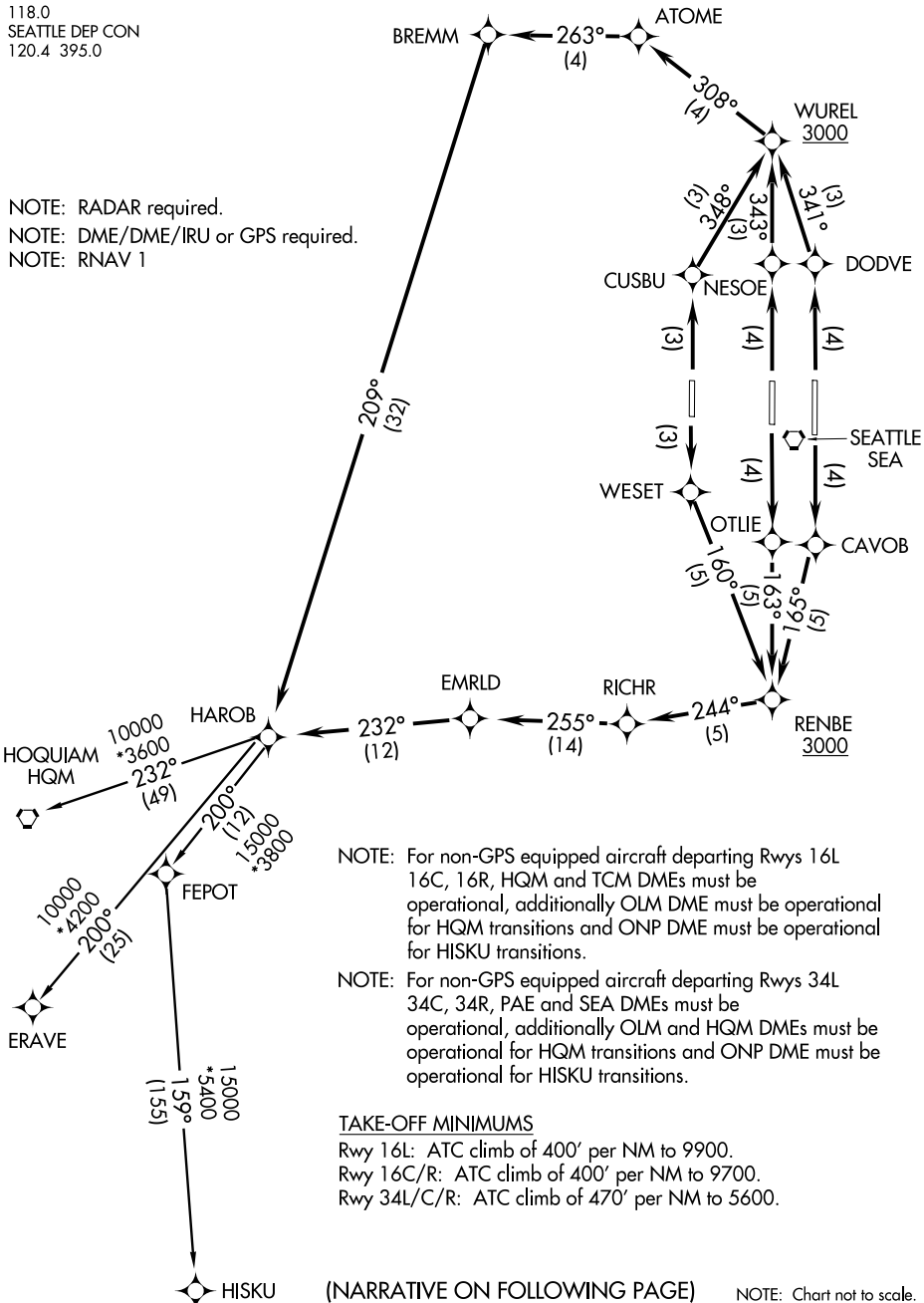
LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.



HAROB THREE DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1



NOTE: For non-GPS equipped aircraft departing Rwy 16L 16C, 16R, HQM and TCM DMEs must be operational, additionally OLM DME must be operational for HQM transitions and ONP DME must be operational for HISKU transitions.

NOTE: For non-GPS equipped aircraft departing Rwy 34L 34C, 34R, PAE and SEA DMEs must be operational, additionally OLM and HQM DMEs must be operational for HQM transitions and ONP DME must be operational for HISKU transitions.

TAKE-OFF MINIMUMS

Rwy 16L: ATC climb of 400' per NM to 9900.
Rwy 16C/R: ATC climb of 400' per NM to 9700.
Rwy 34L/C/R: ATC climb of 470' per NM to 5600.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NW-1, 22 OCT 2009 to 19 NOV 2009

HAROB THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ERAVE TRANSITION (HAROB3.ERAVE)

FEPOT TRANSITION (HAROB3.FEPOT)

HISKU TRANSITION (HAROB3.HISKU)

HOQUIAM TRANSITION (HAROB3.HQM)

TAKE-OFF OBSTACLE NOTES

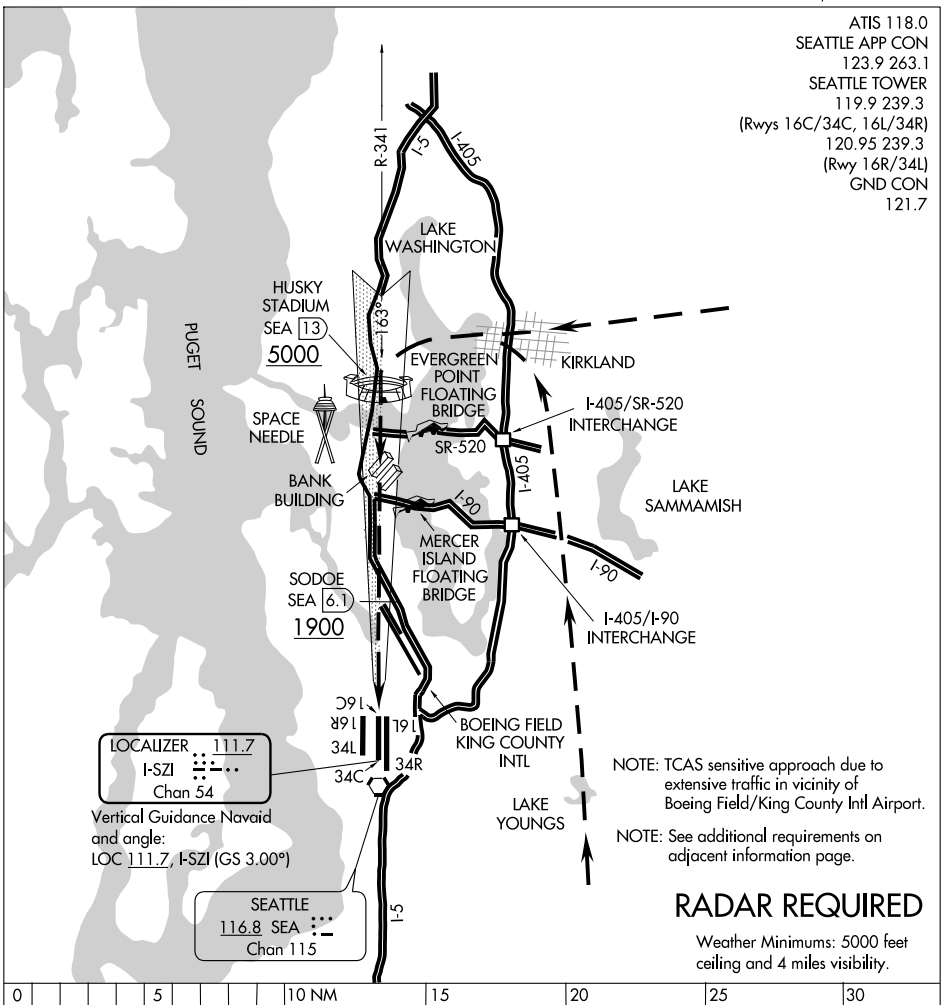
Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.



HUSKY VISUAL APPROACH RWY 16C

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Husky Visual Runway 16C Approach. When cleared for a Husky Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16C localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

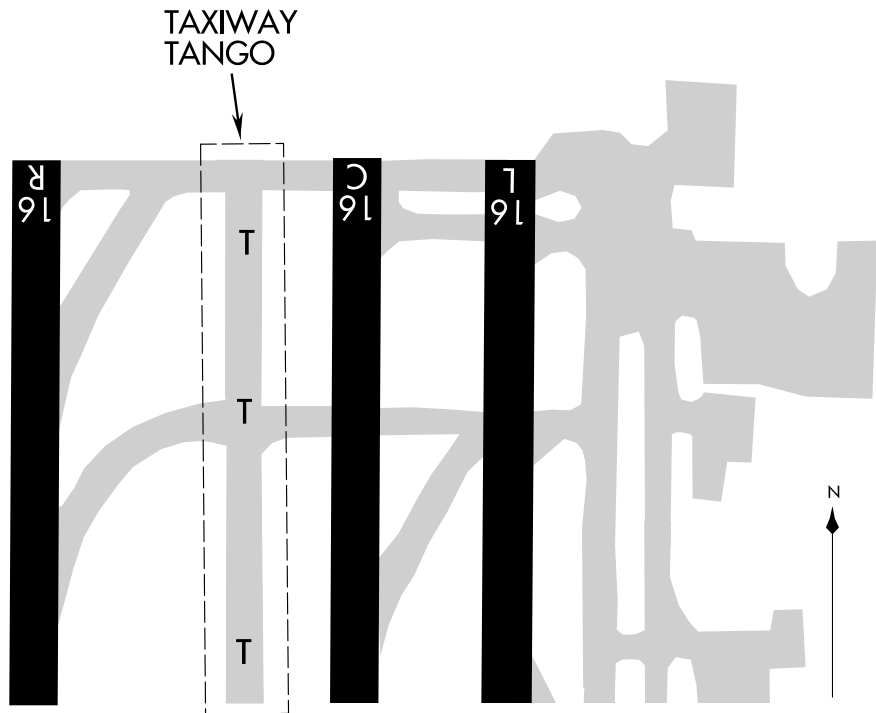
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.



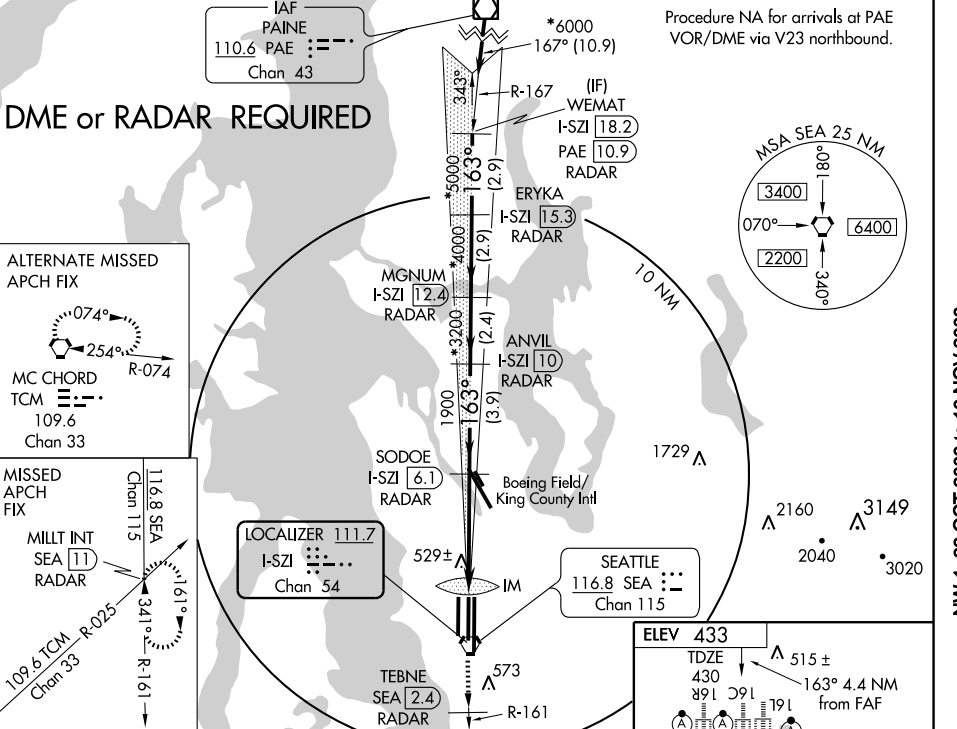
LOC/DME I-SZI 111.7 Chan 54	APP CRS 163°	Rwy 16C Idg 9426 TDZE 430 Apt Elev 433	Rwy 16L Idg 11901 TDZE 433 Apt Elev 433
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For inoperative ALSF-2, increase S-LOC 16C Cat D visibility to RVR 5000. Inoperative table does not apply to SIDESTEP 16L. DME or RADAR required. See additional requirements on adjacent information page.

ALSF-2
Rwy 16C/L

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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*When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

Procedure	WEMAT I-SZI 18.2 Turn NA RADAR	ERYKA I-SZI 15.3 RADAR	MGNUM I-SZI 12.4 RADAR	ANVIL I-SZI 10 RADAR	SODOE I-SZI 6.1 RADAR	TEBNE SEA 2.4 RADAR	5000 SEA R-161 116.8	MILIT INT SEA 11 RADAR
GS 3.00° TCH 57	*6000	*163°	*5000	*4000	*3200	1900	IM	
	2.9 NM	2.9 NM	2.4 NM	3.9 NM	3.6 NM	0.7	0.1	
CATEGORY	A	B	C	D				
S-ILS 16C	630/18				200 (200-½)			
S-LOC 16C	760/24				330 (400-½)		760/40 330 (400-¾)	
SIDESTEP 16L	760/50				327 (400-1)	760-1½ 327 (400-1½)	760-2 327 (400-2)	
CIRCLING 16C	1000-1				567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	

ELEV 433

TDZE 430

891

163° 4.4 NM from FAF

TDZE 433

TWR 696

606 A

517

593 A

515±

191

1901

8500 X 150

9426 X 150

0.6% DOWN

0.6% DOWN

0.6% DOWN

0.8% UP

0.8% UP

0.8% UP

0.8% UP

34L

34C

34R

HIRL all Rwys

TDZ/CL Rwys 16L, 16C, 16R and 34R

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

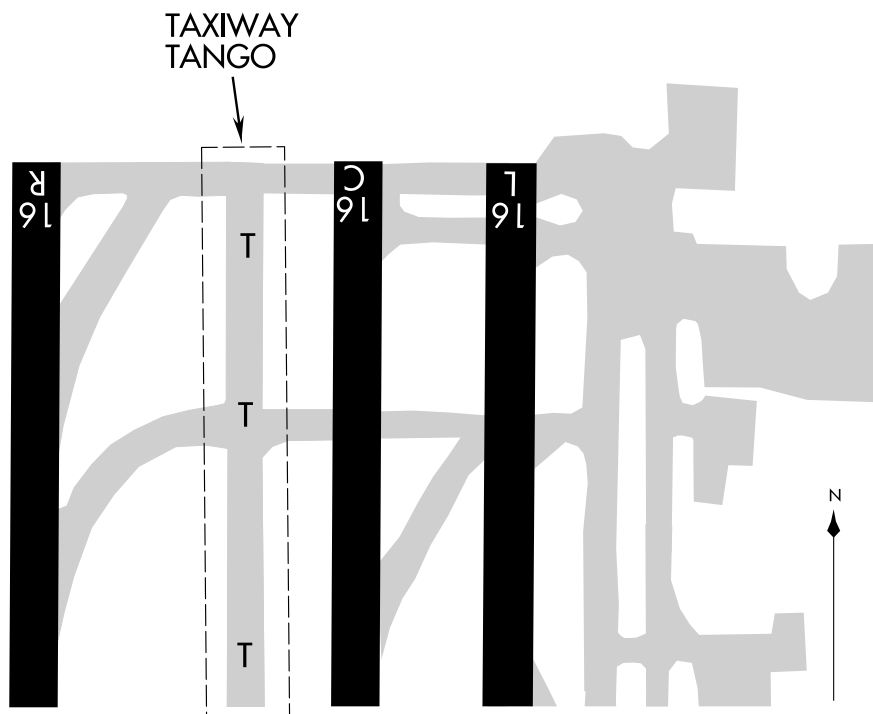
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.


RECOMMENDATION:

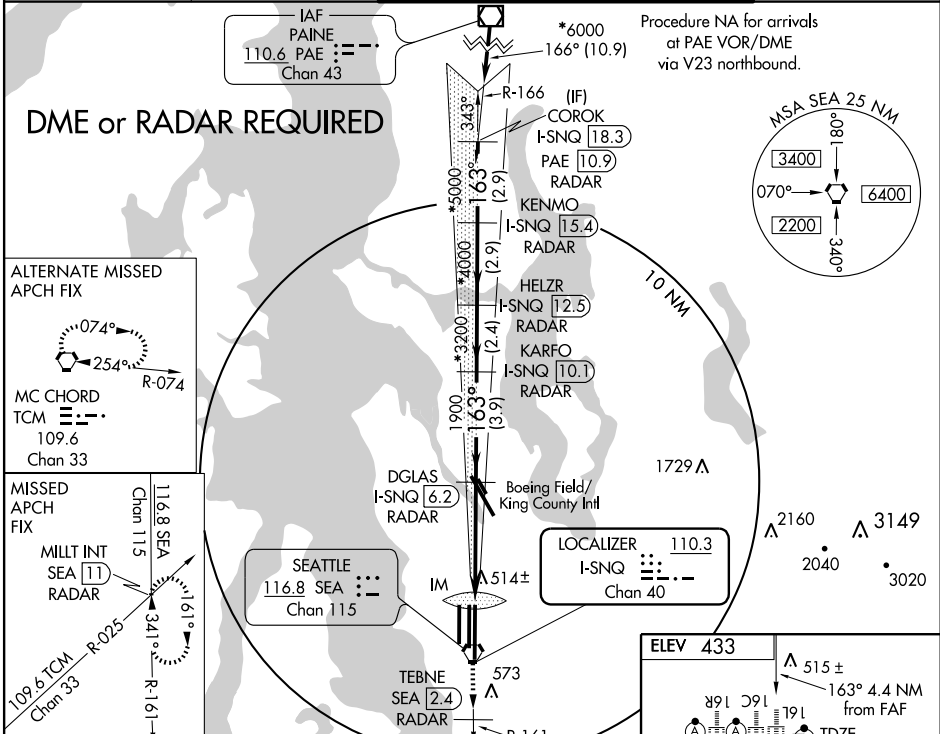
Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



LOC/DME I-SNQ <u>110.3</u> Chan 40	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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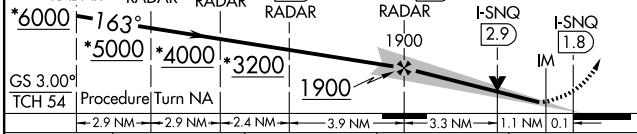
ILS or LOC RWY 16L
SEATTLE-TACOMA INTL (SEA)

V DME or RADAR required. For inoperative ALSF-2, increase S-ILS 16L Cat. A visibility to RVR 5000.		ALSF-2 	MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/ SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.	
ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)		GND CON 121.7

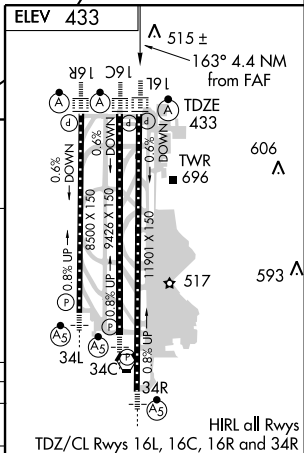


* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

COROK	KENMO	HELZR	KARFO	R-161 116.8	RADAR 2000	SEA R-161	SEA RADAR
I-SNQ	I-SNQ	I-SNQ	I-SNQ	DGLAS	VGSI and ILS glidepath		
(18.3)	(15.4)	(12.5)	(10.1)	I-SNQ (6.2)	not coincident.		
RADAR	RADAR	RADAR	RADAR	RADAR	I-SNQ		



CATEGORY	A	B	C	D
S-ILS 16L	695/18 262 (300-½)	633/18 200 (200-½)		
S-LOC 16L	880/24	447 (500-½)	880/40 447 (500-¾)	880/50 447 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-½)	1000-2 567 (600-2)



FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

For inoperative MALSR, increase SIDESTEP 34R Cats. A and B visibility to RVR 6000.

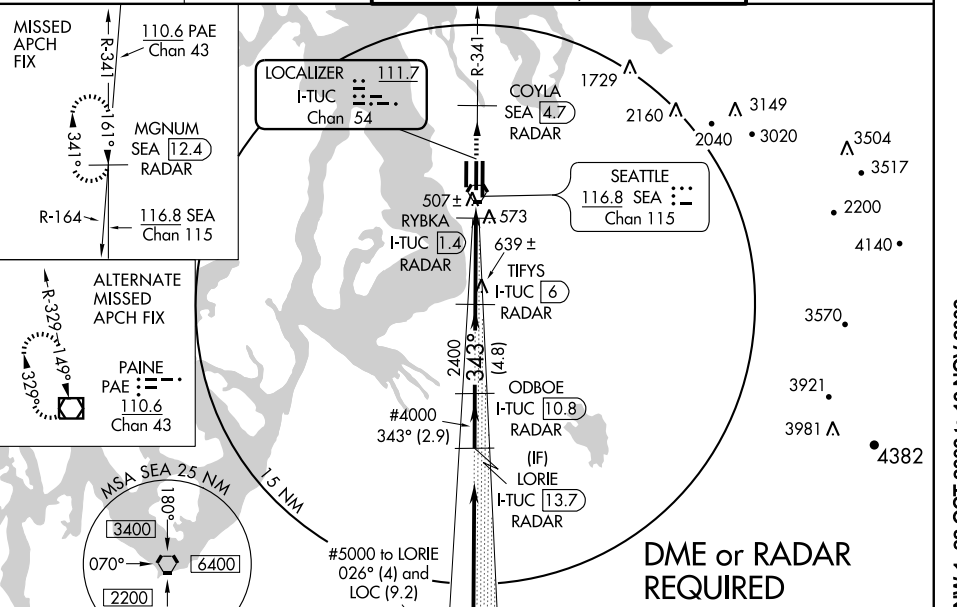
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

DME or RADAR required.

MALSR
Rwy 34C/R

MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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DME or RADAR REQUIRED			
ELEV 433			
SEA R-341 116.8 COYLA SEA 4.7 RADAR 2000 5000 SEA R-341 MGNUM SEA 12.4 RADAR # When assigned by ATC, intercept glidepath at 4000 or 5000. LORIE I-TUC 13.7 RADAR ODBOE I-TUC 10.8 RADAR TIFYS I-TUC 6 RADAR RYBKA I-TUC 1.4 RADAR I-TUC 0.4 900 † 2400 343° 5000# 4000# Procedure Turn NA GS 3.00° TCH 56			
VGSI and ILS glidepath not coincident. † LOC only			
CATEGORY	A	B	D
S-ILS 34C	* 587/24 200 (200-½)		
S-LOC 34C	760/24	373 (400-½)	760/40 373 (400-¾)
SIDESTEP 34R	760/50	388 (400-1)	760/134 388 (400-1¾)
CIRCLING	1000-1	567 (600-1)	1000-2 567 (600-2)

343° 6.1 NM from FAF

TDZ/CL Rwys 16L, 16C, 16R and 34R

HIRL all Rwys

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

NW-1, 22 OCT 2009 to 19 NOV 2009

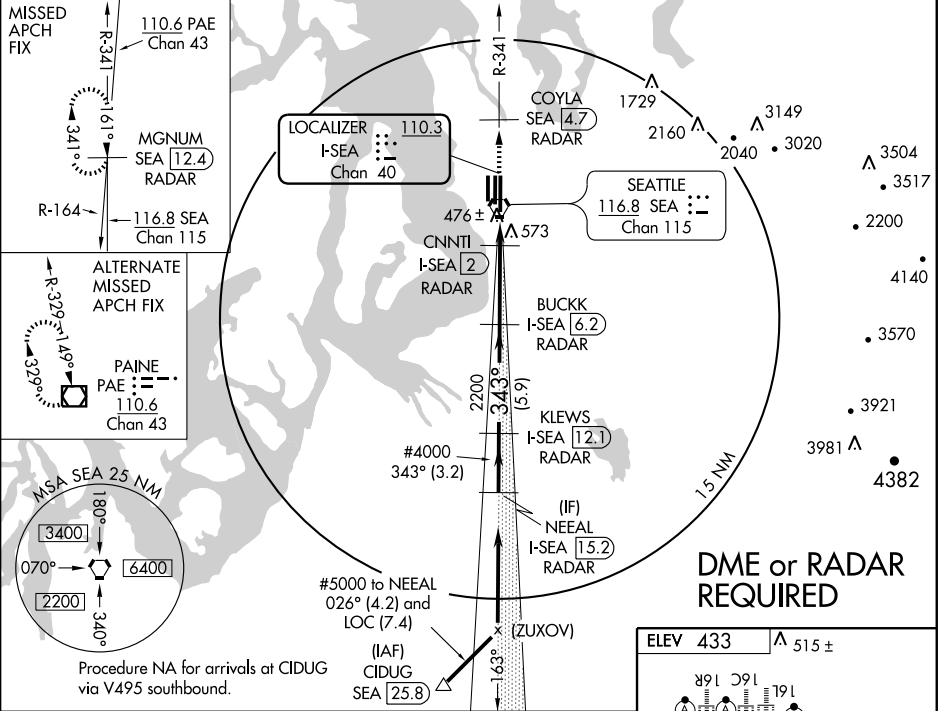
Category	A	B	C	D
S-ILS 34L	* 579/24 200 (200-½)			
S-LOC 34L	760/24 381 (400-½)			760/40 381 (400-¾)
CIRCLING	1000-1 567 (600-1)	1000-1½ 567 (600-1½)		1000-2 567 (600-2)

LOC/DME I-SEA 110.3 Chan 40	APP CRS 343°	Rwy 34R Idg TDZE Apt Elev 11901 372 433	Rwy 34C Idg TDZE Apt Elev 9426 387 433
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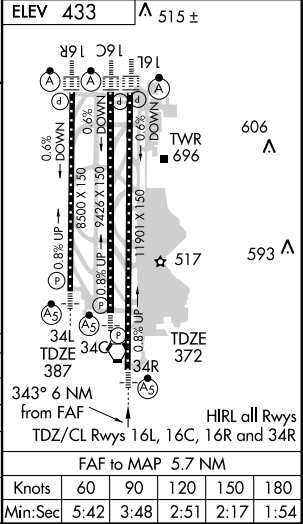
ILS or LOC RWY 34R
SEATTLE-TACOMA INTL (SEA)

✦ Inoperative table does not apply to SIDESTEP 34C, Cats. A and B. DME or RADAR required.	MALSR Rwy 34R/C 	MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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↑ 341°	SEA R-341 116.8	COYLA SEA 4.7 RADAR 2000	5000 ↑ SEA R-341	MGNUM SEA 12.4 RADAR	Use I-SEA DME when on the localizer course. # When assigned by ATC, intercept glidepath at 4000 or 5000.			
VGSI and ILS glidepath not coincident. *LOC only					BUCKK I-SEA 6.2 RADAR	KLEWS I-SEA 12.1 RADAR	NEEAL I-SEA 15.2 RADAR	Procedure Turn NA

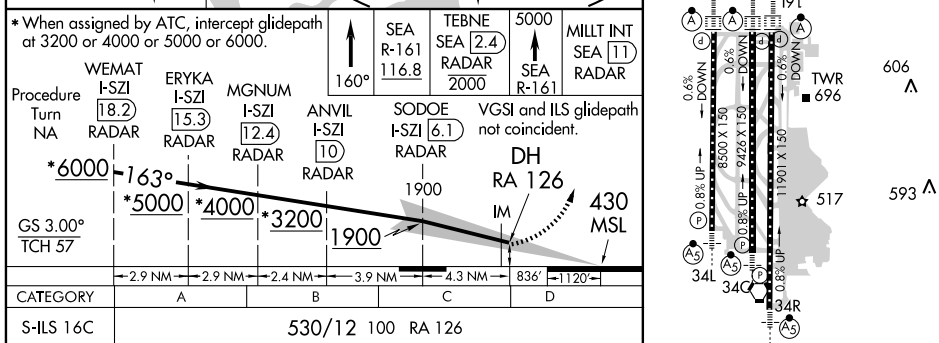
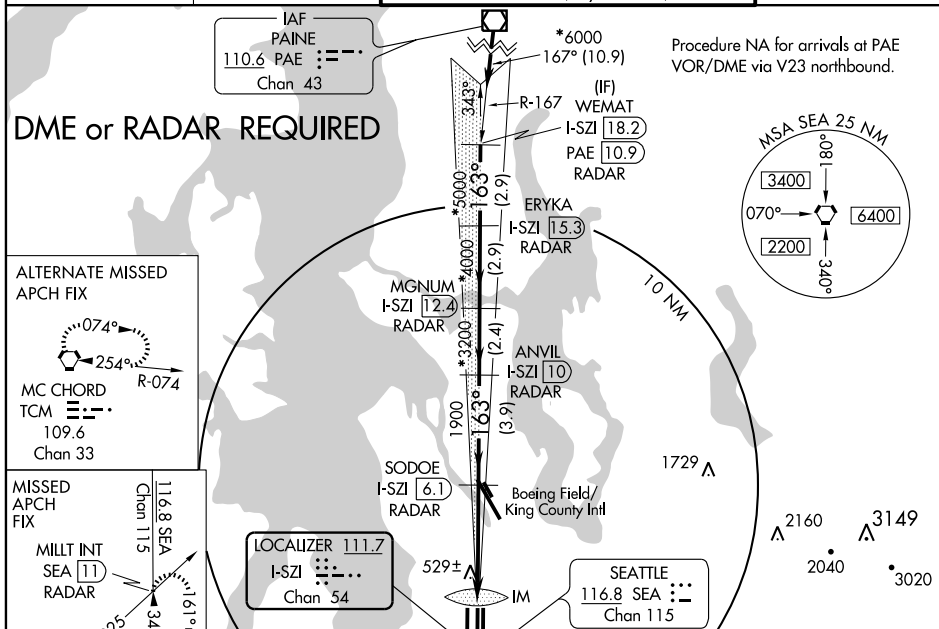


LOC/DME I-SZ 111.7 Chan 54	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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ILS RWY 16C (CAT II)
SEATTLE-TACOMA INTL (SEA)

	DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED	HIRL all Rwy's TDZ/CL Rwy's 16L, 16C, 16R and 34R
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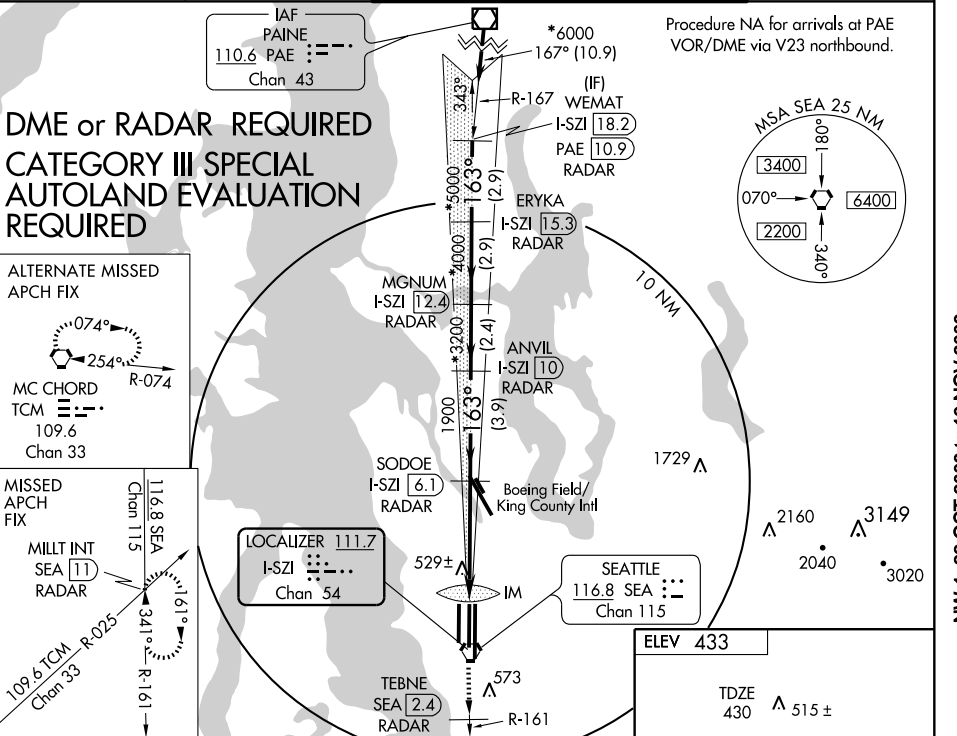
▼

DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

Procedure	WEMAT I-SZI 18.2 RADAR	ERYKA I-SZI 15.3 RADAR	MGNUM I-SZI 12.4 RADAR	ANVIL I-SZI 10 RADAR	SODOE I-SZI 6.1 RADAR	TEBNE SEA 2.4 RADAR	SEA R-161 116.8	5000 SEA R-161	MILT INT SEA 11 RADAR
Turn	NA	NA	NA	NA	NA	NA	NA	NA	NA
Altitude	6000	6000	6000	6000	6000	6000	6000	6000	6000
GS	3.00°	3.00°	3.00°	3.00°	3.00°	3.00°	3.00°	3.00°	3.00°
TCH	57	57	57	57	57	57	57	57	57

CATEGORY	A	B	C	D
S-ILS 16C		CAT IIIA	RVR 07	
S-ILS 16C		CAT IIIB	RVR 03	
S-ILS 16C		CAT IIIC	NA	

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED


HIRL all Rwys TDZ/CL Rwys 16L, 16C, 16R and 34R

NW-1. 22 OCT 2009 to 19 NOV 2009

LOC/DME I-SNQG 110.3 Chan 40	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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ILS RWY 16L (CAT II)
SEATTLE-TACOMA INTL (SEA)

T DME or RADAR required.

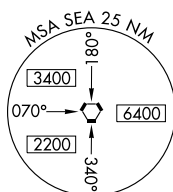
ALSF-2 	MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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DME or RADAR REQUIRED

IAF
PAINE
110.6 PAE : = -
Chan 43

*6000 Procedure NA for arrivals
166° (10.9) at PAE VOR/DME
via V23 northbound.



ALTERNATE MISSED
APCH FIX

MC CHORD
TCM 
109.6
Chan 33

MISSED
APCH
FIX

MILIT IN
SEA 11
RADAR



SEATTLE
6.8 SEA ::
Chan 115

LOCALIZER 110.3
I-SNQ
Chan 40

ELEV 433

* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

COROK I-SNQ 18.3 RADAR
KENMO I-SNQ 15.4 RADAR
HELZR I-SNQ 12.5 RADAR
KARFO I-SNQ 10.1 RADAR

 165°	SEA R-161 116.8	TEBNE SEA 2.4 RADAR 2000	5000  SEA R-161	MILIT INT SEA 11 RADAR
DGLAS I-SNQ 6.2 RADAR		VGSi and ILS glidepath not coincident. DH		

CATEGORY	A	B	C	D
S-ILS 16L	NA	533/12 100 RA 125		

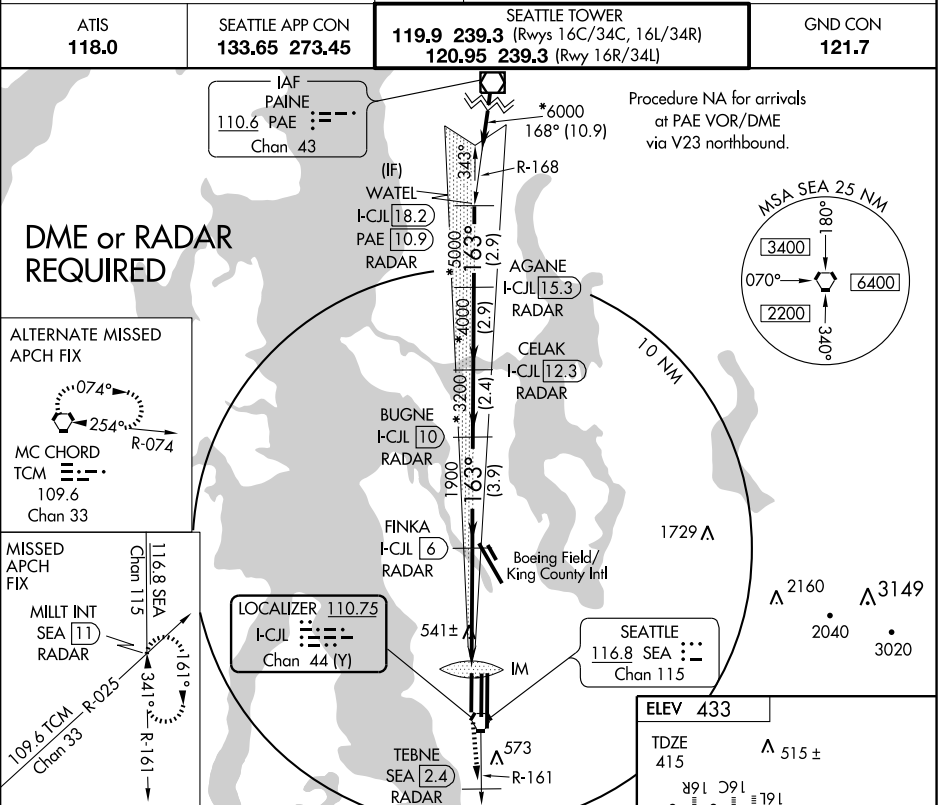
CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

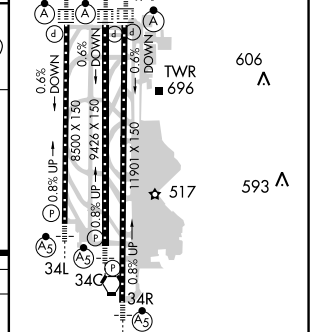
LOC/DME I-CJL 110.75 Chan 44 (Y)	APP CRS 163°	Rwy Idg TDZE Apt Elev	8500 415 433
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ILS RWY 16R (CAT II)
SEATTLE-TACOMA INTL (SEA)

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
DME or RADAR required.		ALSF-2	MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.



* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.			
Procedure	WATEL I-CJL 18.2 RADAR	AGANE I-CJL 15.3 RADAR	CELAK I-CJL 12.3 RADAR
Turn NA			
*6000 *5000 *4000 *3200			
GS 3.00°	TCH 55		
2.9 NM 2.9 NM 2.4 NM 3.9 NM 4.3 NM 861' 1148'			
CATEGORY	A	B	C
S-ILS 16R	515/12 100 RA 139		



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwy
TDZ/CL Rwy 16L, 16C, 16R and 34R

LOC/DME I-CJL 110.75 Chan 44 (Y)	APP CRS 163°	Rwy Idg TDZE Apt Elev	8500 415 433
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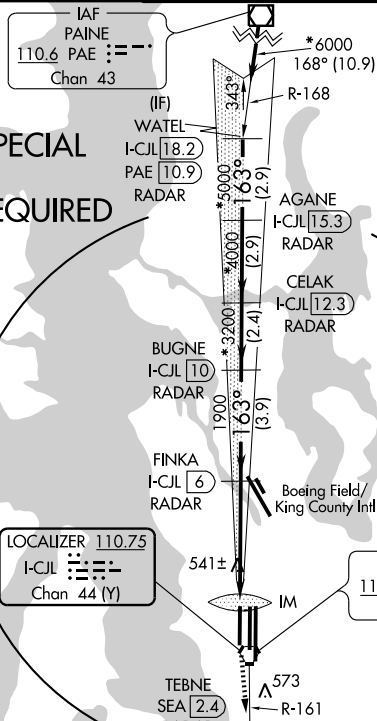
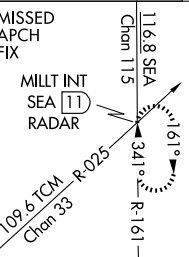
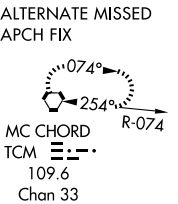
ILS RWY 16R (CAT III)
SEATTLE-TACOMA INTL (SEA)

DME or RADAR required.		ALSF-2	MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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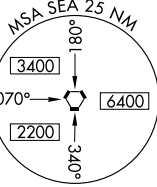
ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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DME or RADAR
REQUIRED

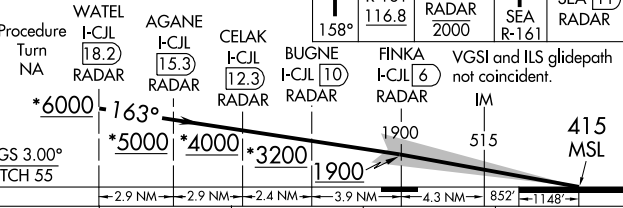
CATEGORY III SPECIAL
AUTOLAND
EVALUATION REQUIRED



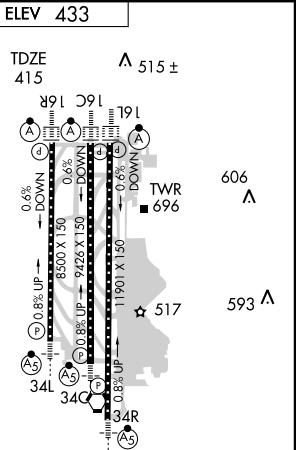
Procedure NA for arrivals
at PAE VOR/DME
via V23 northbound.



* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.



CATEGORY	A	B	C	D
S-ILS 16R		CAT IIIA	RVR 07	
S-ILS 16R		CAT IIIB	RVR 06	
S-ILS 16R		CAT IIIC	NA	



CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwy
TDZ/CL Rwy 16L, 16C, 16R and 34R

ILS RWY 34C (CAT II)
SEATTLE-TACOMA INTL (SEA)

MALSR

MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7

LOCALIZER 111.7
I-TUC
Chan 54

ALTERNATE
MISSED
APCH FIX

PAINE
PAE :— — —
110.6
Chan 43

MSA SEA 25 NM

Procedure NA for arrivals at CIDUG
via V495 southbound.

DME or RADAR
REQUIRED

ELEV 433

 $\Lambda_{515 \pm}$

↑	SEA R-341	COYLA SEA 4.7	5000 ↑	MGNUM SEA	# When assigned by ATC, intercept glidepath at 4000 or 5000.	LORE
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VGSI and ILS glidepath not coincident.

Diagram illustrating the approach path for the 5000# runway, showing altitudes, distances, and angles.

Key data points from the diagram:

- Initial Altitude: 387 MSL
- Distance segments: 900', 1303', 5.9 NM, 4.8 NM, 2.9 NM
- Altitudes: 2400, 4000#, 5000#
- Angles: 343°, 133° (RA), 3.00° (GS)
- Labels: DH, RADAR, TCH 56

CATEGORY	A	B	C	D
S-ILS 34C	487/12 100 RA 133			


13.7
Procedure
Turn NA

The diagram illustrates the vertical structure of the atmosphere. Key features include:
 - Altitudes: 891, 791, 606, 593, 696, 517, 34L, 34C, 34R.
 - Wind Speed Profiles: Indicated by arrows and labels such as "0.6% DOWN", "0.8% UP", "DOWN", "UP".
 - Atmospheric Density Profiles: Labeled as TDZE, 387, 8500 X 130, 9422 X 130, 11901 X 150.
 - Various layers are identified by letters (A through Z) and numbers.

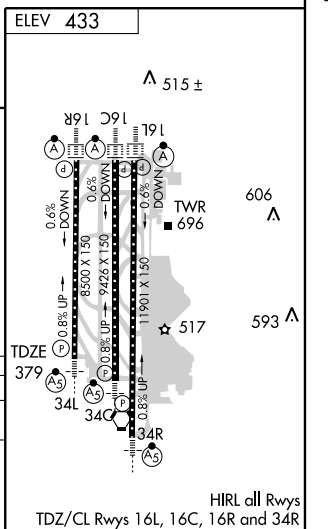
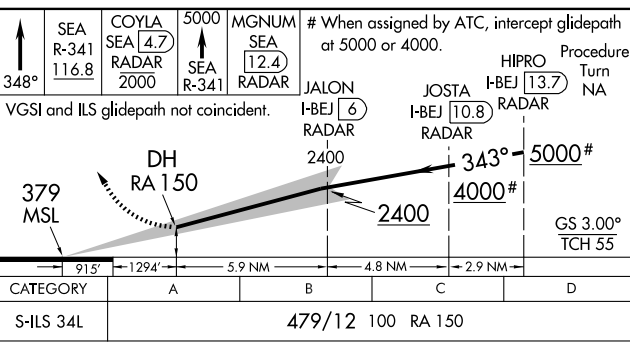
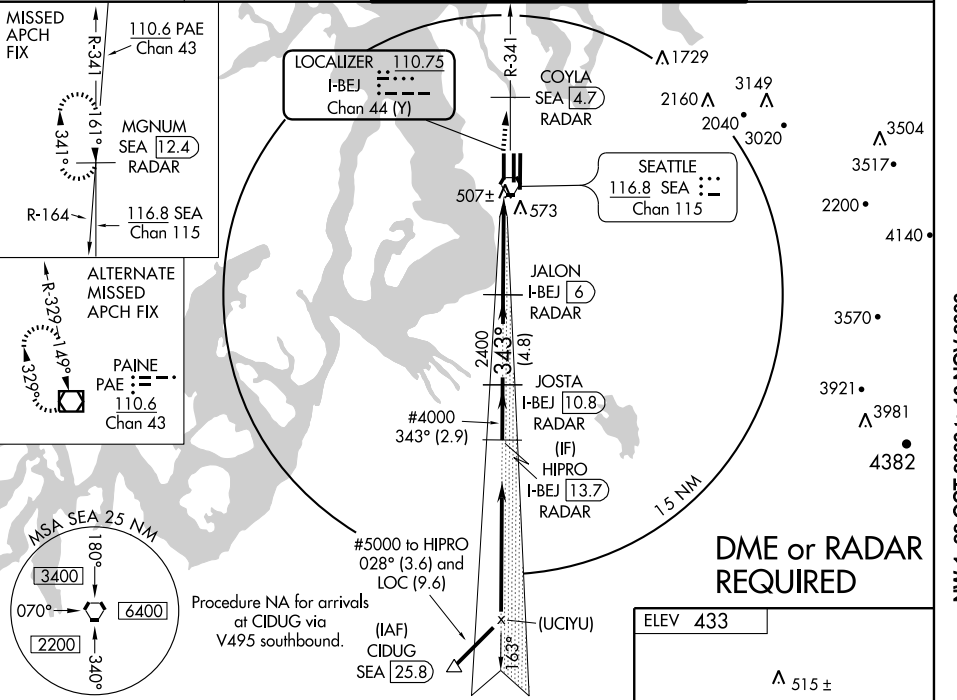
HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

LOC/DME I-BEJ	APP CRS	Rwy Idg	8500
110.75	343°	TDZE	379
Chan 44 (Y)		Apt Elev	433

DME or RADAR required.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSEC approval or LOA for this Rwy.

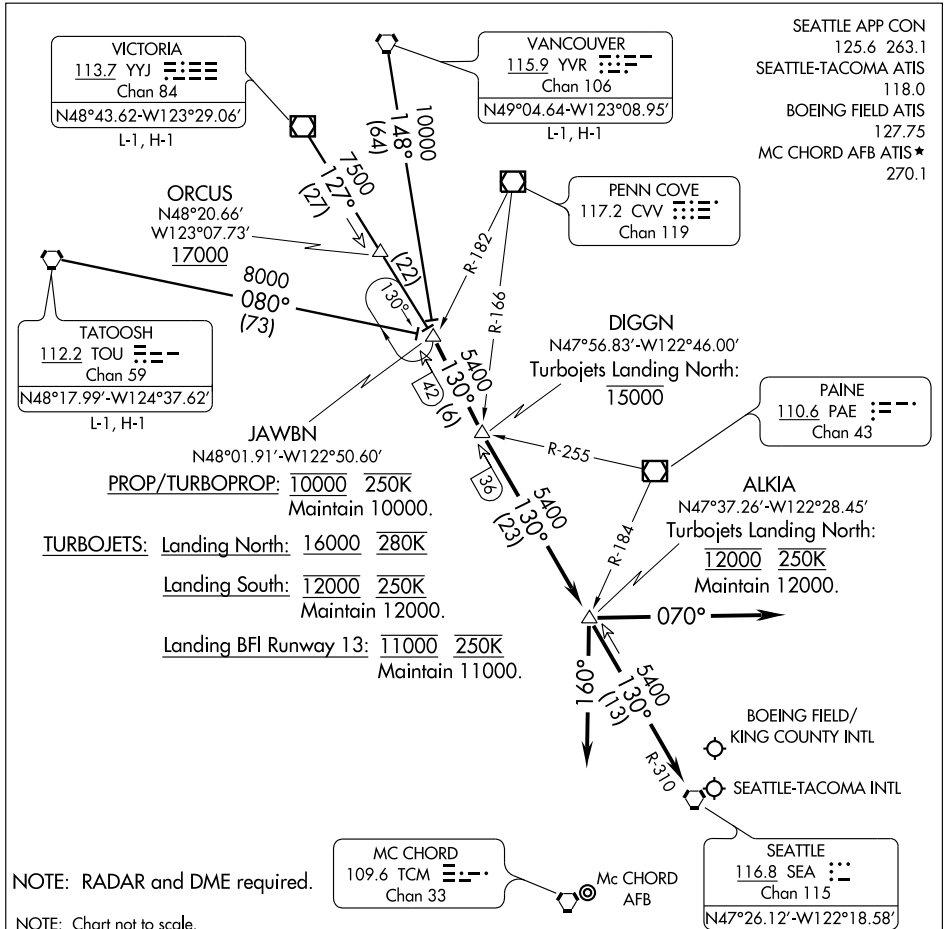
MALS R

MISSED APPROACH: Climb heading 348° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/ RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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NW-1, 22 OCT 2009 to 19 NOV 2009

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED.



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

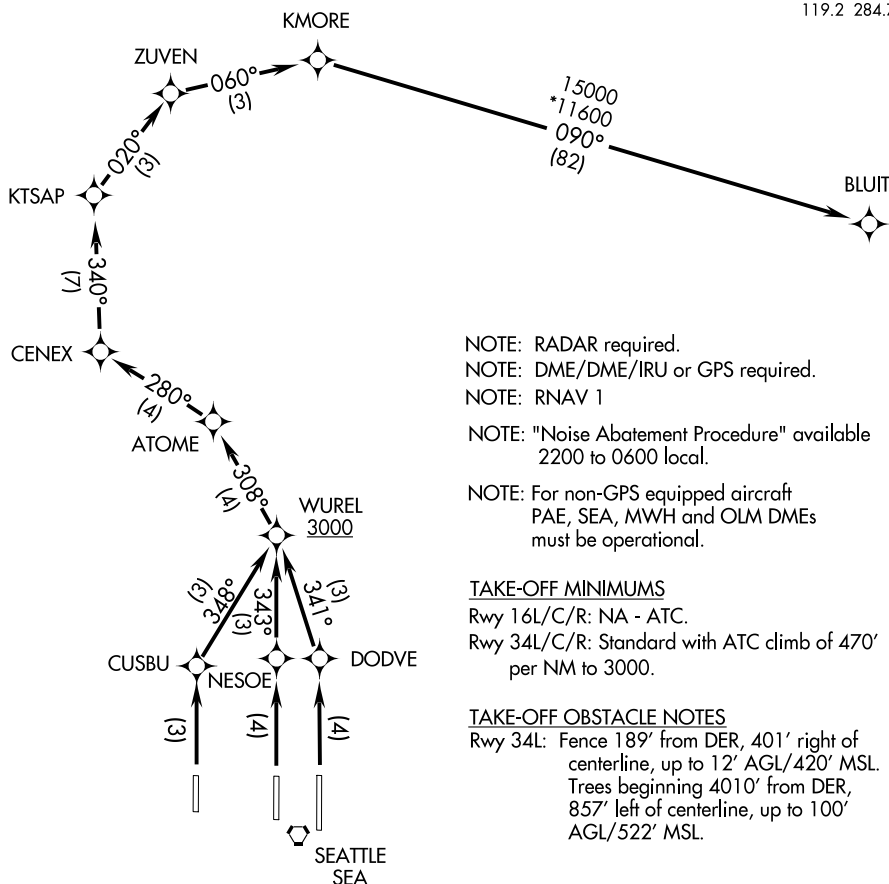
LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KMORE TWO DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
119.2 284.7



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

. . . via assigned route. Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

KTSAP THREE DEPARTURE (RNAV)

ATIS

118.0

SEATTLE DEP CON

119.2 284.7

TATOOSH
TOU15000
*9400
274°
(93)

KTSAP

340°
(7)

CENEX

280°
(4)

ATOME

WUREL
3000308°
(4)

CUSBU

348°
(3)

NESOE

343°
(3)

DODVE

341°
(3)SEATTLE
SEA

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

NOTE: "Noise Abatement Procedure" available
2200 to 0600 local.NOTE: For non-GPS equipped aircraft PAE DME
must be operational.

TAKE-OFF MINIMUMS

Rwy 16L/C/R: NA - ATC.

Rwy 34L/C/R: Standard with ATC climb of
470' per NM to 3000.

TAKE-OFF OBSTACLE NOTES

Rwy 34L: Fence 189' from DER, 401' right of centerline,
up to 12' AGL/420' MSL. Trees beginning
4010' from DER, 857' left of centerline, up to
100' AGL/522' MSL.

NOTE: Chart not to scale.

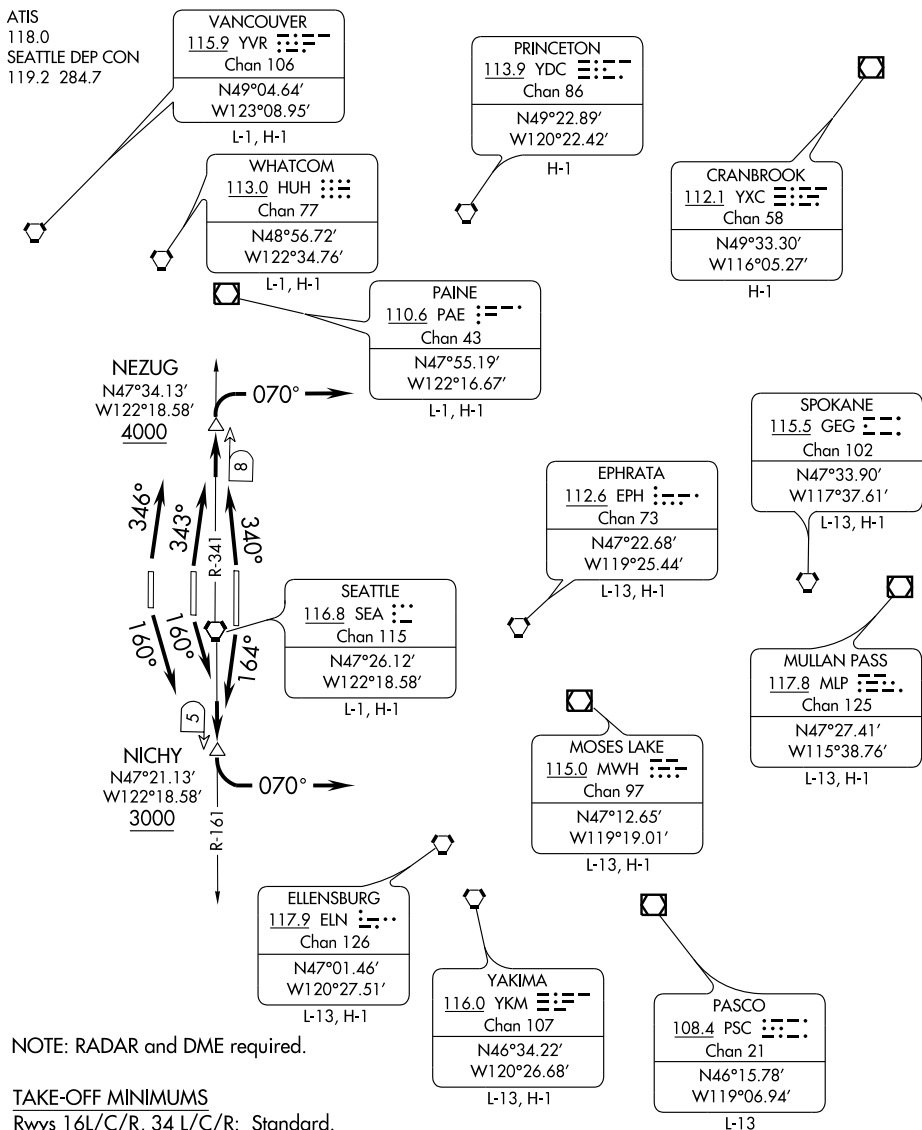
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .

. . . via assigned route. Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

MOUNTAIN SIX DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

NW-1, 22 OCT 2009 to 19 NOV 2009



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34R: Climb heading 340° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

. . . .Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA.

LOST COMMUNICATIONS: If no contact with ATC leaving 4000', proceed direct SEA VORTAC, then proceed on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/468' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75

BOEING FIELD/
KING COUNTY INTL

SEATTLE-TACOMA INTL

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'

MC CHORD
109.6 TCM
Chan 33

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'

PROP/TURBOPROP: 10000 250K
Maintain 10000.

TURBOJET: Landing North: 12000 250K
Maintain 12000.

Landing South: 17000 280K

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19'-W122°58.69'
L-1, H-1

NOTE: Chart not to scale.

NOTE: RADAR and DME required.

BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

WAAS CH 61010 W16B	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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RNAV (GPS) RWY 16C

SEATTLE-TACOMA INTL (SEA)

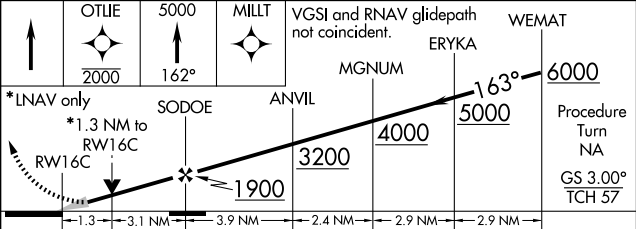
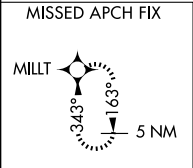
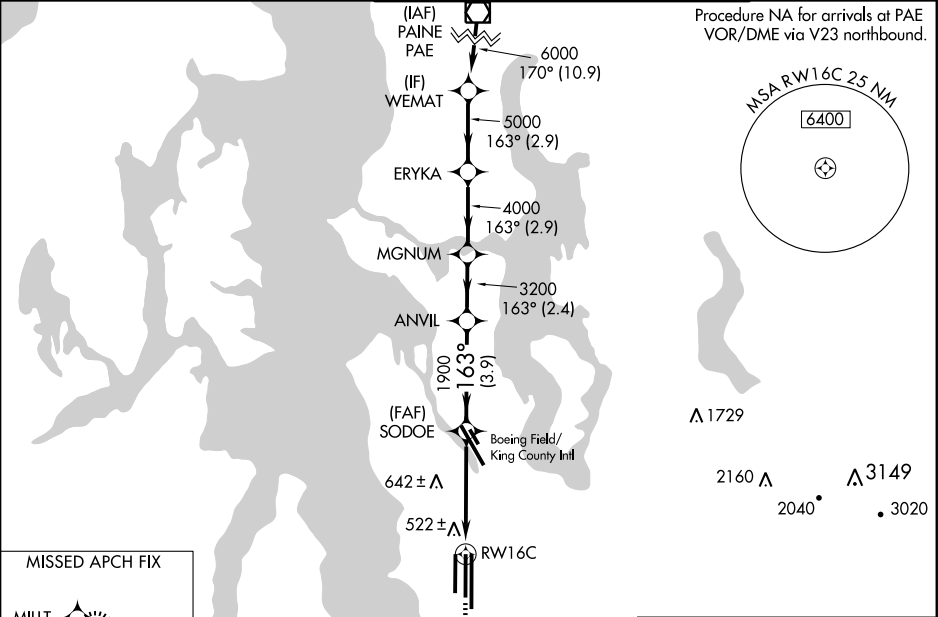
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.
See additional requirements on adjacent information page.

ALSF-2

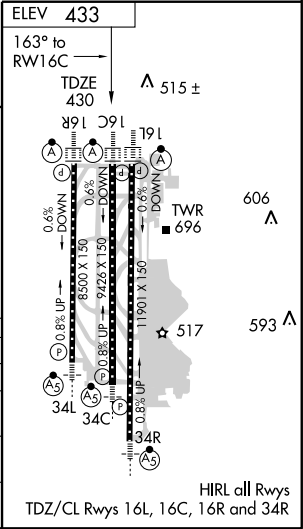


MISSED APPROACH: Climb direct OTLIE to cross OTLIE at or below 2000, then climb to 5000 via track 162° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA		630/24	200 (200-1/2)	
LNAV/VNAV DA		811/40	381 (400-3/4)	
LNAV MDA	920/24	490 (500-1/2)	920/40 490 (500-3/4)	920/50 490 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1 1/2 567 (600-1 1/2)	1000-2 567 (600-2)



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

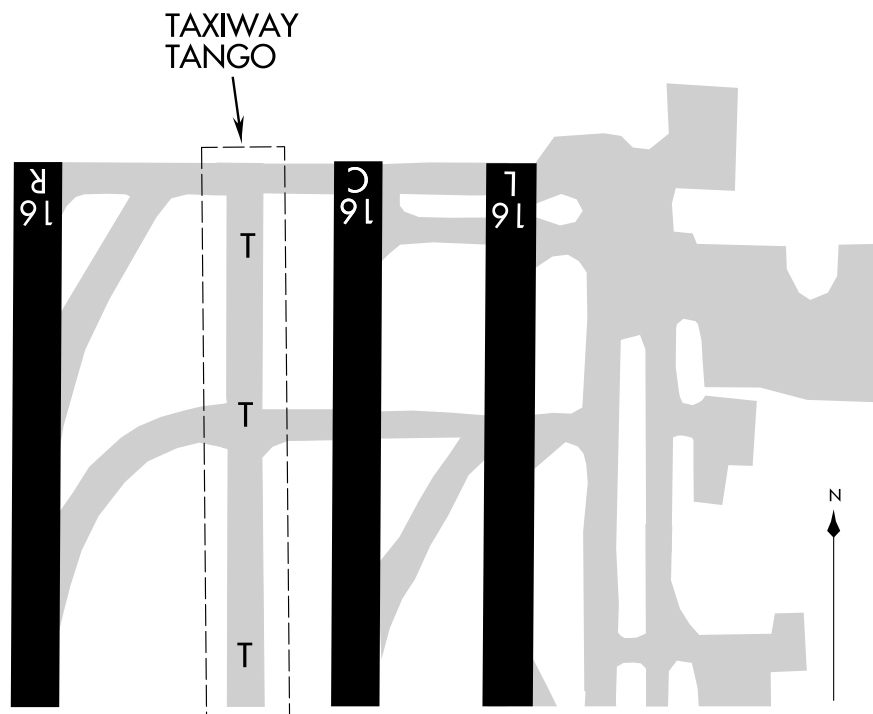
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



WAAS CH 63202 W16A	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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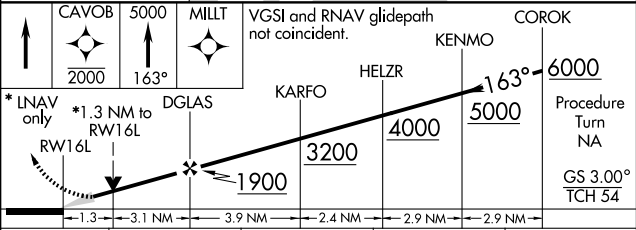
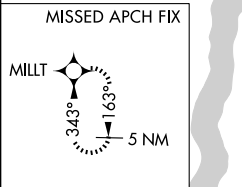
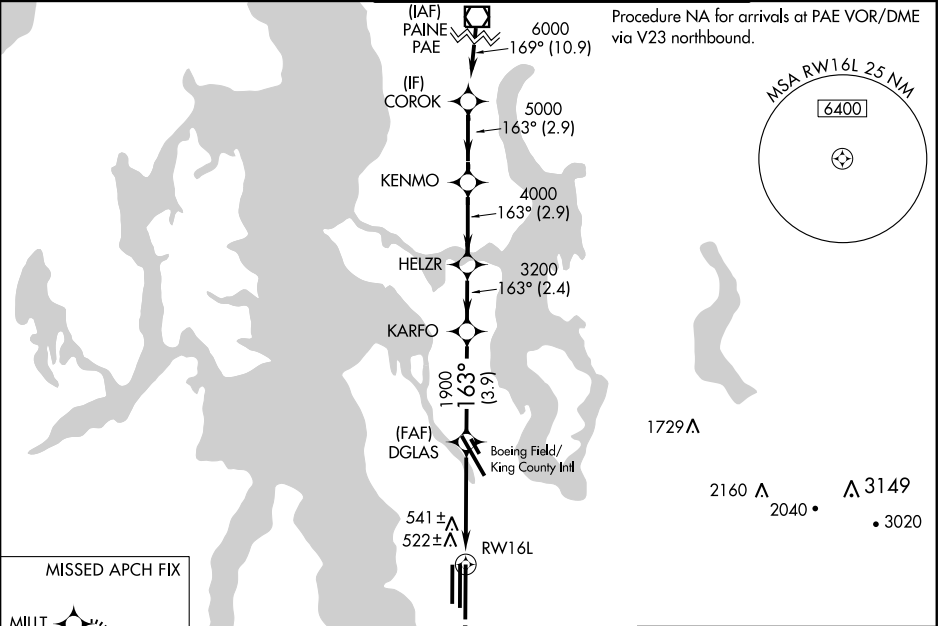
RNAV (GPS) RWY 16L

SEATTLE-TACOMA INTL (SEA)

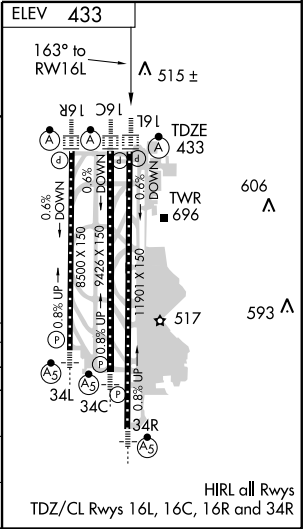
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP -0.3 NA. For inoperative ALSF-2, increase LPV all Cats. visibility to RVR 5000.

ALSF-2
MISSED APPROACH: Climb direct CAVOB to cross CAVOB at or below 2000, then climb to 5000 via track 163° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA	729/24	296 (300-½)		
LNAV/VNAV DA	811/40	378 (400-¾)		
LNAV MDA	920/24	487 (500-½)	920/40 487 (500-¾)	920/50 487 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)



WAAS CH 86910 W16D	APP CRS 163°	Rwy Idg 8500 TDZE 415 Apt Elev 433
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RNAV (GPS) RWY 16R

SEATTLE-TACOMA INTL (SEA)

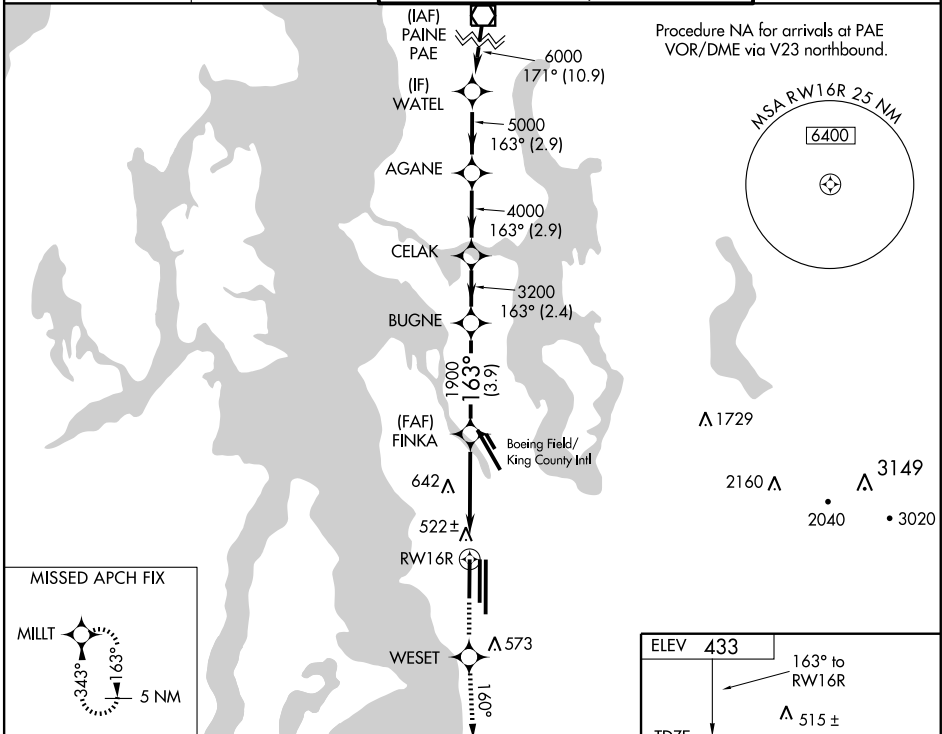
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.






ALSF-2

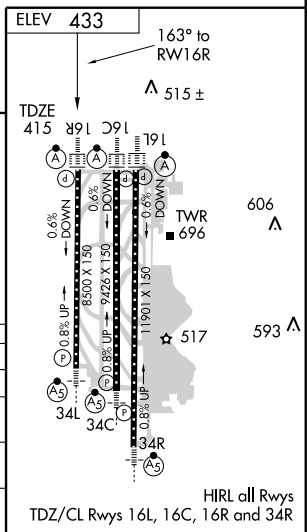


MISSED APPROACH: Climb direct WESET to cross WESET at or below 2000, then climb to 5000 via track 160° to MILT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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 WESET 2000		 5000 160°		 MILIT VGS1 and RNAV glidepath not coincident.		AGANE WATL	
*LNAV only  RW16R *1.4 NM to RW16R		FINKA 		BUGNE CELAK 3200		6000 163° 5000 Procedure Turn NA GS 3.00° TCH 55	
1.4 3 NM		3.9 NM		2.4 NM 4000		2.9 NM 5000	
CATEGORY		A		B		D	
LPV	DA	615/24		200 (200-½)			
LNAV/VNAV	DA	808/40		393 (400-¾)			
LNAV	MDA	920/24		505 (500-½)		920/50 505 (500-1)	
CIRCLING		1000-1 567 (600-1)		1000-1½ 567 (600-1½)		1000-2 567 (600-2)	



WAAS CH 77710 W34B	APP CRS 343°	Rwy Idg 9426 TDZE 387 Apt Elev 433
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RNAV (GPS) RWY 34C
SEATTLE-TACOMA INTL (SEA)

T For inoperative MALS/R, increase LPV all Cats. visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.



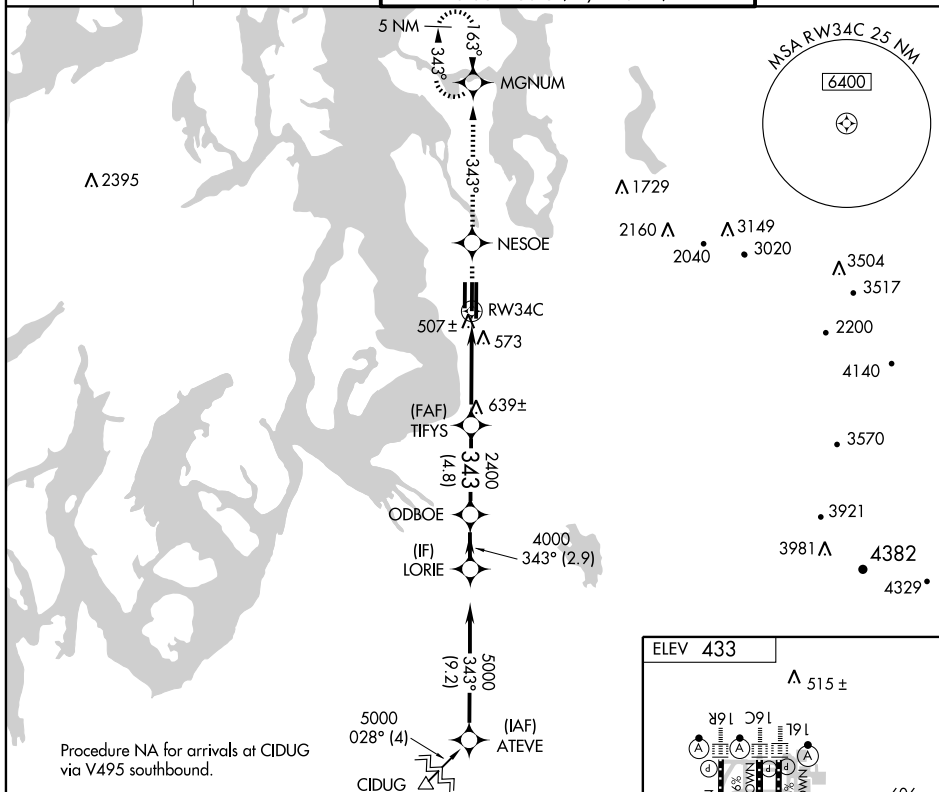
MISSED APPROACH: Climb direct NESOE to cross NESOE at or below 2000, then climb to 5000 via track 343° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS
118.0

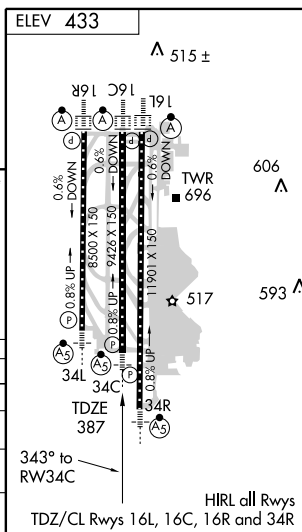
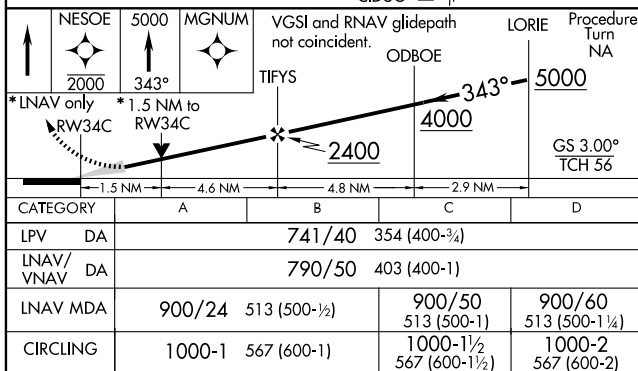
SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7



Procedure NA for arrivals at CIDUG
via V495 southbound.

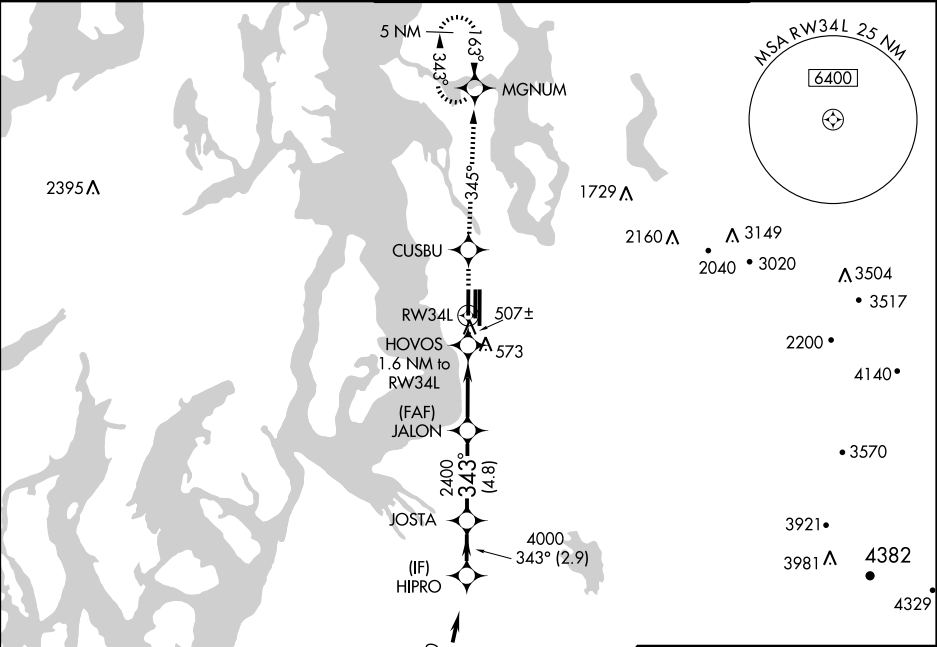


RNAV (GPS) RWY 34L
SEATTLE-TACOMA INTL (SEA)

WAAS CH 45810 W34D	APP CRS 343°	Rwy Idg TDZE Apt Elev	8500 379 433
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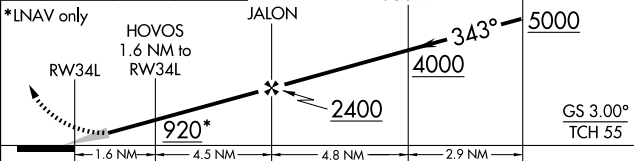
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.	MALSR 	MISSED APPROACH: Climb direct CUSBU to cross CUSBU at or below 2000, then climb to 5000 via track 345° to MGNUM and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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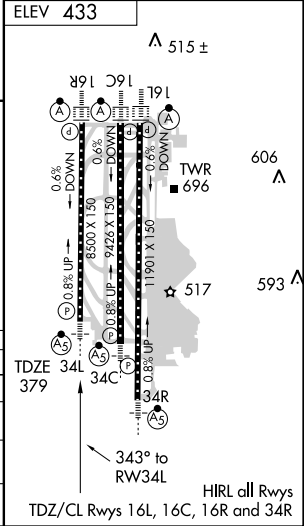


Procedure NA for arrivals at CIDUG via V495 southbound.

			VGSI and RNAV glidepath not coincident. Procedure Turn NA
↑	↑	↑	
2000	345°		



CATEGORY	A	B	C	D
LPV DA	579/24 200 (200-½)			
LNAV/VNAV DA	792/50 413 (400-1)			
LNAV MDA	860/24	481 (500-½)	860/40 481 (500-¾)	860/50 481 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-½ 567 (600-½)	1000-2 567 (600-2)



WAAS
CH 42710
W34A

APP CRS
343°

Rwy Idg 11901
TDZE 372
Apt Elev 433

For inoperative MALS, increase LPV all Cats. visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 54°C (130°F). DME/DME RNP -0.3 NA.

MALS

MISSED APPROACH: Climb direct DODVE to cross DODVE at or below 2000, then climb to 5000 via track 342° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.

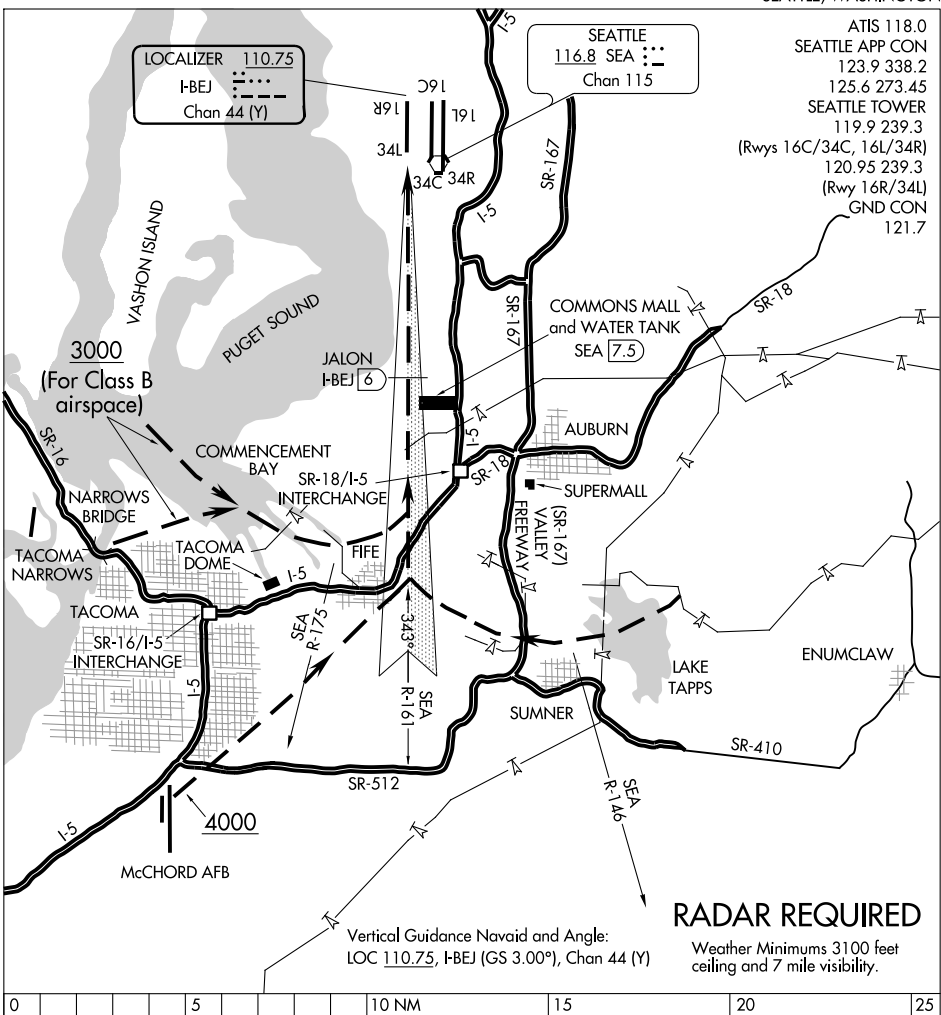
			VGSI and RNAV glidepath not coincident.		Procedure
↑	↑	↑	BUCKK	KLEWS	NEEAL Turn NA
2000	342°			4000	5000
*LNAV only	1.6 NM to RW34R				GS 2.75° TCH 60
1.6 NM	4.4 NM	5.9 NM	3.2 NM		
CATEGORY	A	B	C	D	
LPV DA	622/24		250 (200-½)		
LNAV/VNAV DA	869-1½		497 (500-1½)		
LNAV MDA	900/24	528 (500-½)	900/50 528 (500-1)	900/60 528 (500-1½)	
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	

NW-1. 22 OCT 2009 to 19 NOV 2009

SALTY VISUAL RWY 34L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON



SALTY VISUAL APPROACH RWY 34L

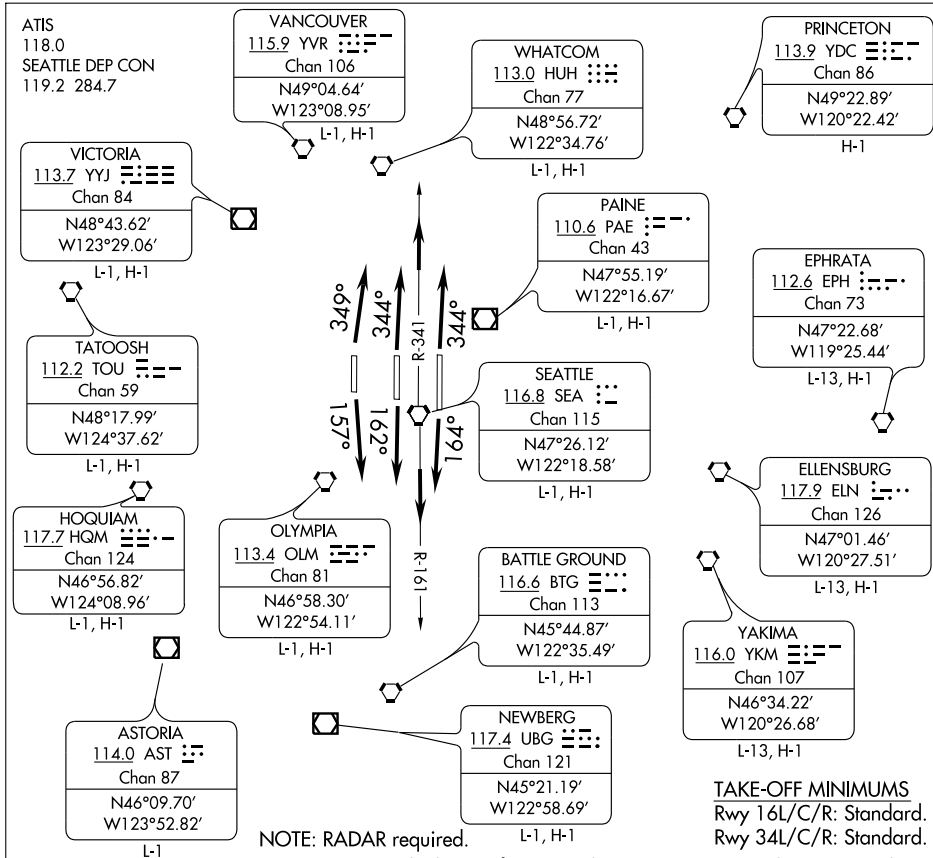
When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord AFB or Lake Tapps for a Salty Visual Runway 34L Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34L. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to runway 34L.

SEATTLE FOUR DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



NW-1, 22 OCT 2009 to 19 NOV 2009

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 349° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C/R: Climb heading 344° and SEA R-341, thence. . .TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16C: Climb heading 162° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 157° and SEA R-161, thence. . .

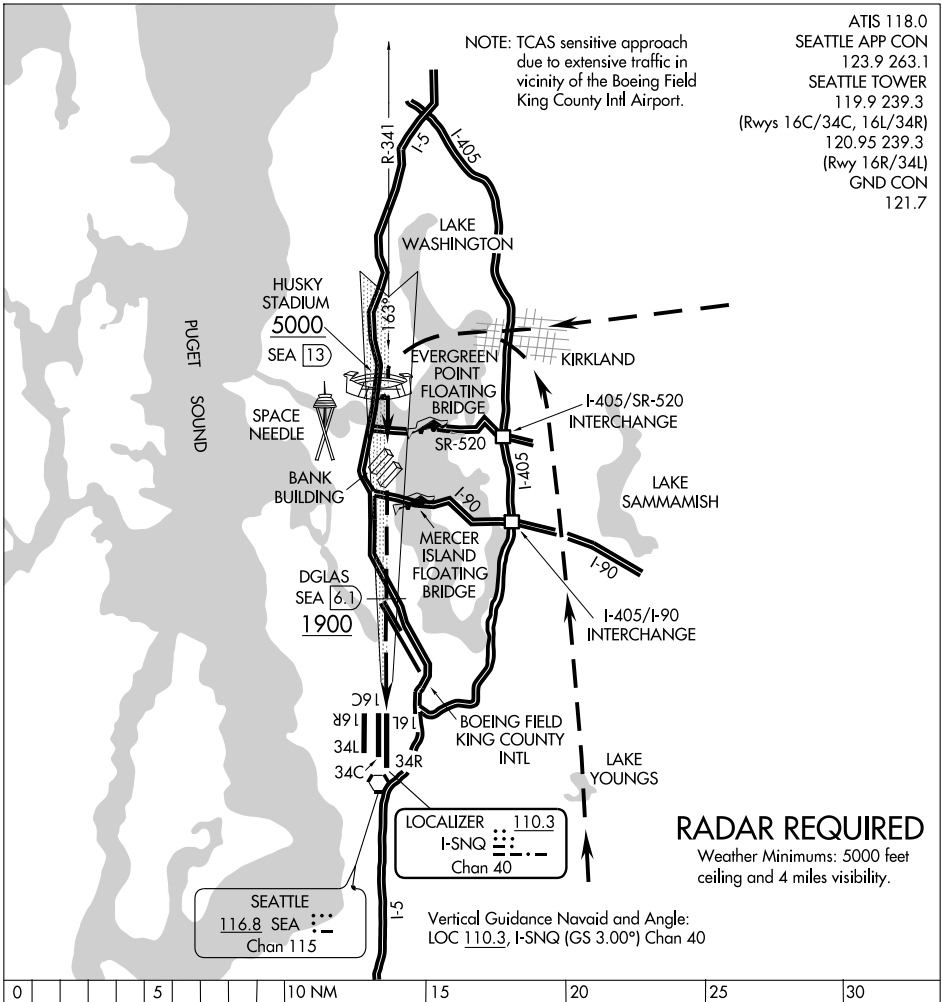
. . . Maintain assigned altitude, expect radar vectors to assigned route.

STADIUM VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



STADIUM VISUAL APPROACH RWY 16L

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Stadium Visual Runway 16L Approach. When cleared for a Stadium Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16L localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SUMMA SEVEN DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
119.2 284.7

NEZUG
N47°34.12'
W122°18.58'
4000

PAINE
110.6 PAE :--
Chan 43

TAKE-OFF MINIMUMS

Rwys 16L/C/R: Standard.

Rwys 34L/C/R: Standard with minimum climb of 580' per NM to 4000 (ATC).

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

NEVJO
N47°15.13'
W122°18.58'

OLYMPIA
113.4 OLM :--
Chan 81

SUMMA
N46°37.07'
W121°59.30'

BAKER CITY
115.3 BKE :--
Chan 100
N44°50.44' W117°48.47'
L-13, H-1

LAKEVIEW
112.0 LKV :--
Chan 57
N42°29.57' W120°30.43'
L-11, H-3

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34R: Climb heading 342° and SEA R-341, thence. . .

. . .to cross NEZUG at or above 4000, then right turn heading 070° to cross the PAE R-139, then right turn heading 165° to intercept SEA R-146 to SUMMA INT, then via assigned transition.

TAKE-OFF RUNWAYS 16L/C: Climb heading 163° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 161° and SEA R-161, thence. . .

. . .to NEVJO, then left turn heading 130° to intercept the SEA R-146 to SUMMA INT, then via assigned transition.

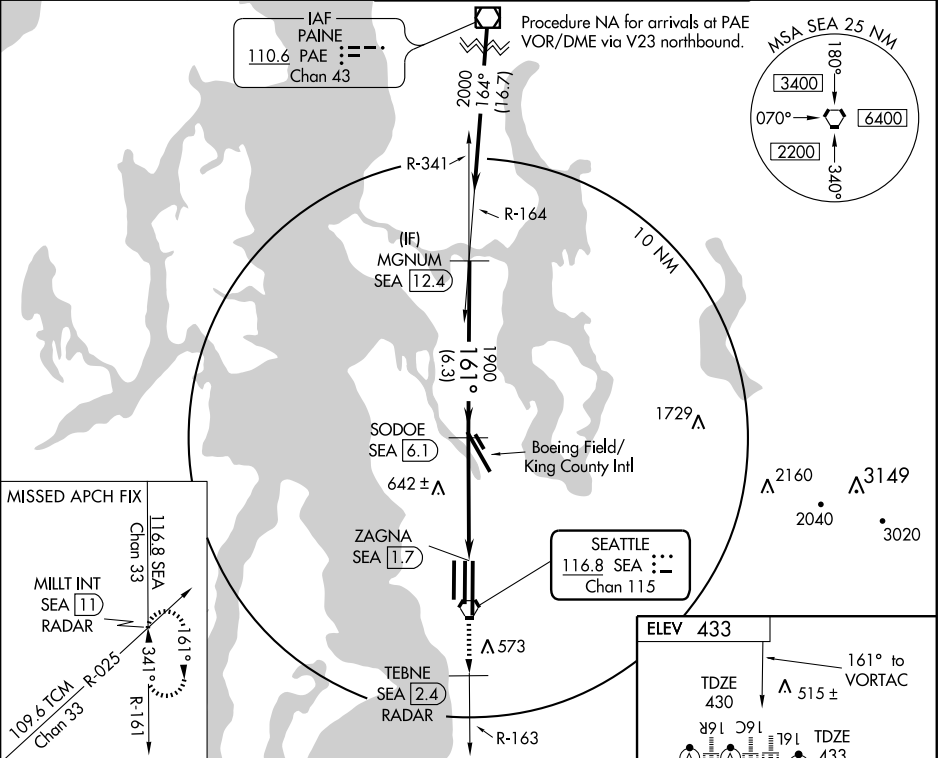
BAKER CITY TRANSITION (SUMMA7.BKE): From over SUMMA INT via OLM R-100 and BKE R-283 to BKE VOR/DME.LAKEVIEW TRANSITION (SUMMA7.LKV): From over SUMMA INT via SEA R-146 and LKV R-327 to LKV VORTAC.

See additional requirements on adjacent information page.

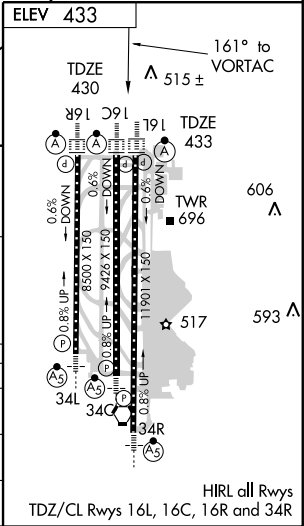
ALSF-2
Rwy 16L/C

MISSED APPROACH: Climb heading 163° and SEA VORTAC R-161 to cross TEBNE/2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA R-163 to MILT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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	MGNUM SEA 12.4	SODOE SEA 6.1	TEBNE SEA 2.4	5000	MILT INT SEA 11
	163°	163°	163°	163°	163°
	2000	1900	2000	2000	2000
	6.3 NM	3 NM	1.4 NM		
CATEGORY	A	B	C	D	
S-16L	960/24 527 (600-½)		960/50 527 (600-1)	960/60 527 (600-1 ¼)	
S-16C	960/24 530 (600-½)		960/50 530 (600-1)	960/60 530 (600-1 ¼)	
CIRCLING	1000-1 567 (600-1)		1000-1 567 (600-1 ½)	1000-2 567 (600-2)	



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

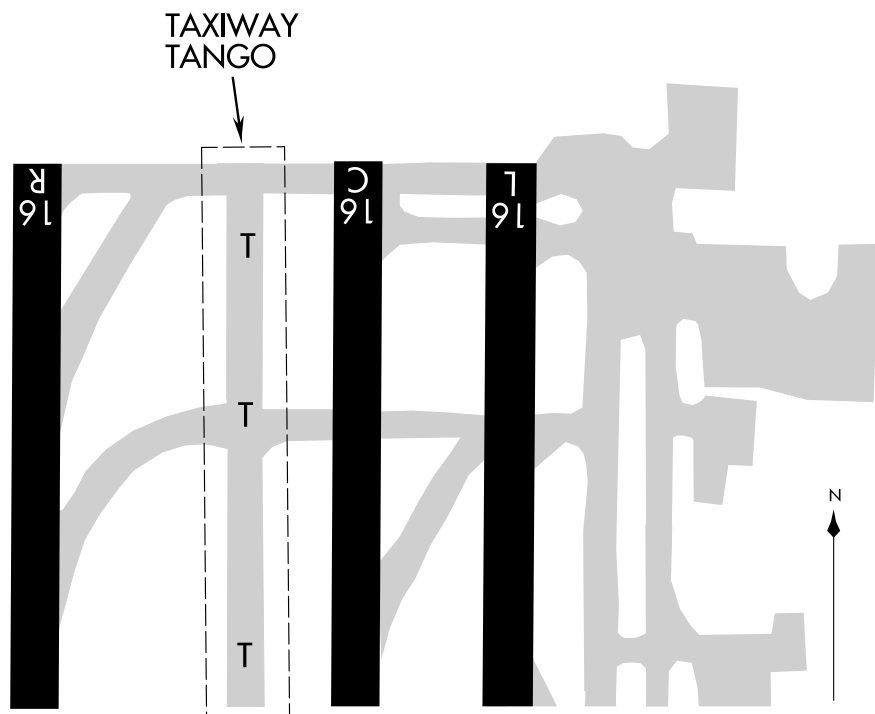
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



VORTAC SEA	APP CRS	Rwy 34C Idg	9426	Rwy 34R Idg	11901
116.8	341°	TDZE	387	TDZE	372
Chan 115		Apt Elev	433	Apt Elev	433

VOR/DME RWY 34C

SEATTLE-TACOMA INTL (SEA)

Inoperative table does not apply to sidestep 34R Cats. A and B.

MALSR

Rwy 34C/R

MISSED APPROACH: Climb via SEA R-341 to cross COYLA/4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA R-341 to MGNUM/SEA 12.4 DME and hold, continue climb-in-hold to 5000.

ATIS	SEATTLE APP CON	SEATTLE TOWER	GND CON
118.0	133.65 273.45	119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	121.7

SEA R-341

COYLA SEA 4.7 RADAR 2000

5000 SEA R-341

MGNUM SEA 12.4

VGSI and descent angles not coincident.

FACTS INT SEA 18

SEA 1.1

BALNE SEA 0.3

DONDO SEA 4.3

MILLT INT SEA 11

341°

6000

3000

Procedure Turn NA

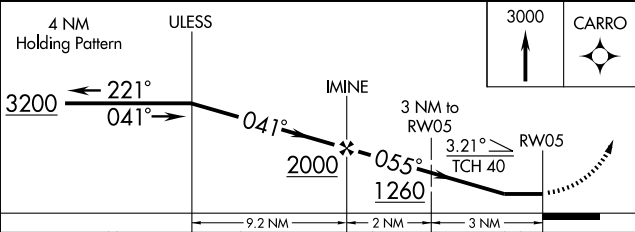
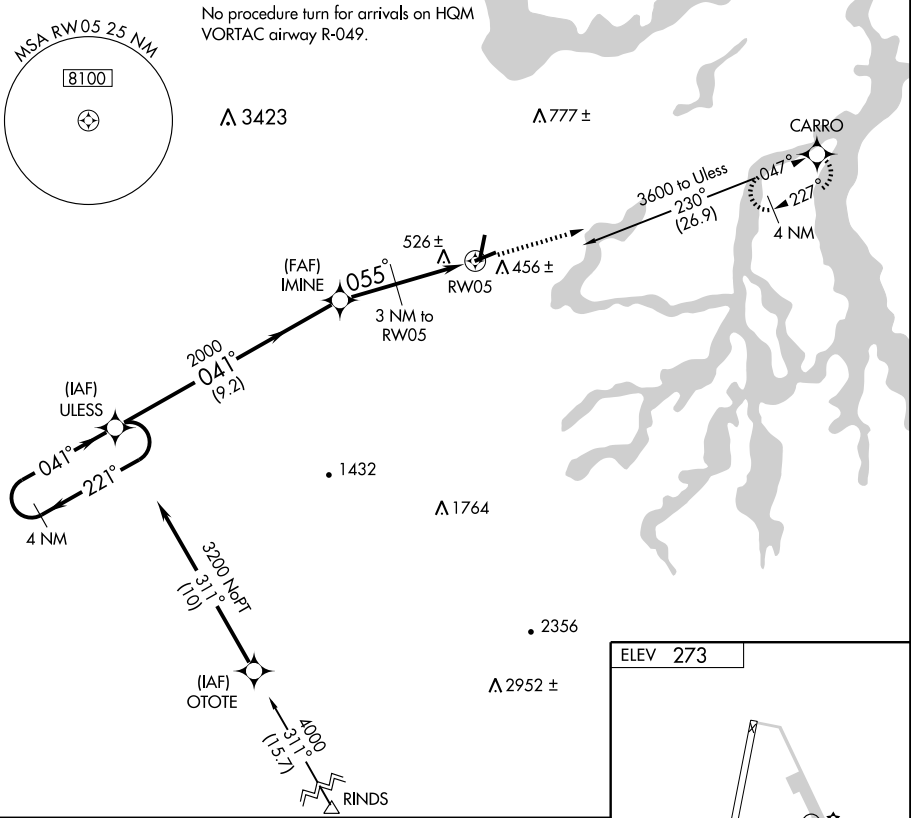
CATEGORY	A	B	C	D
S-34C	840/24 453 (500-½)		840/40 453 (500-¾)	840/50 453 (500-1)
SIDESTEP 34R	840/60 468 (500-1¼)			840-1¾ 468 (500-1¾)
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-1½)	1000-2 567 (600-2)

NW-1. 22 OCT 2009 to 19 NOV 2009

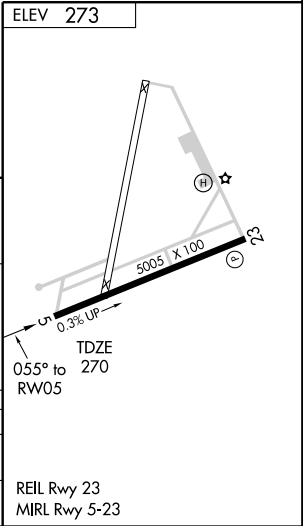
APP CRS	Rwy Idg	5005
055°	TDZE	270
	Apt Elev	273

<div><div></div><div>NA</div></div>	MISSED APPROACH: Climb to 3000 direct CARRO WP and hold.
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ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-5	780-1	510 (600-1)	780-1½ 510 (600-1½)	780-1¾ 510 (600-1¾)
CIRCLING	840-1	567 (600-1)	940-2 667 (700-2)	1000-2¼ 727 (800-2¼)



GPS RWY 23

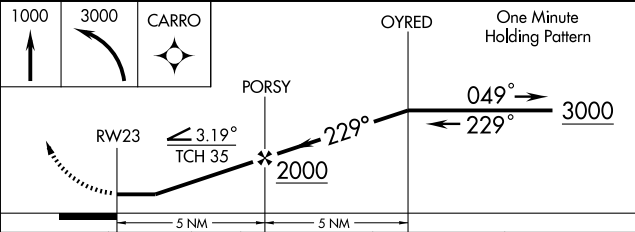
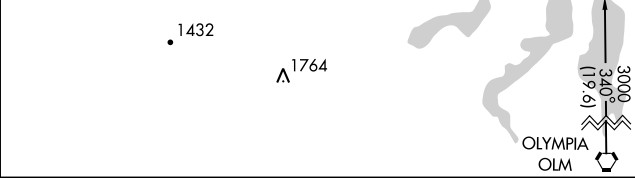
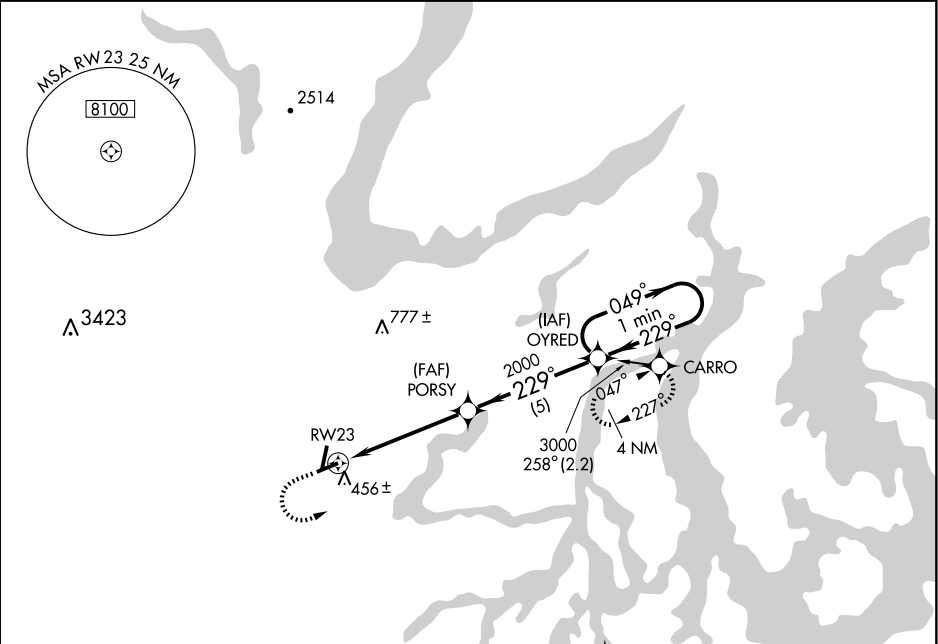
SHELTON/ SANDERSON FIELD (SHN)

APP CRS	Rwy Idg	5005
229°	TDZE	273
	Apt Elev	273

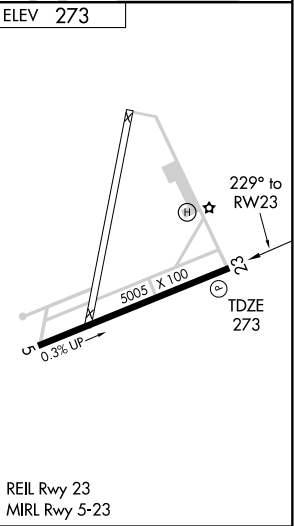

NA

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CARRO WP and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-23	860-1 587 (600-1)		860-1½ 587 (600-1½)	860-1¾ 587 (600-1¾)
CIRCLING	860-1 587 (600-1)		940-2 667 (700-2)	1000-2¼ 727 (800-2¼)



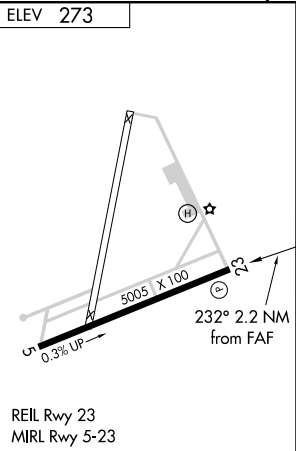
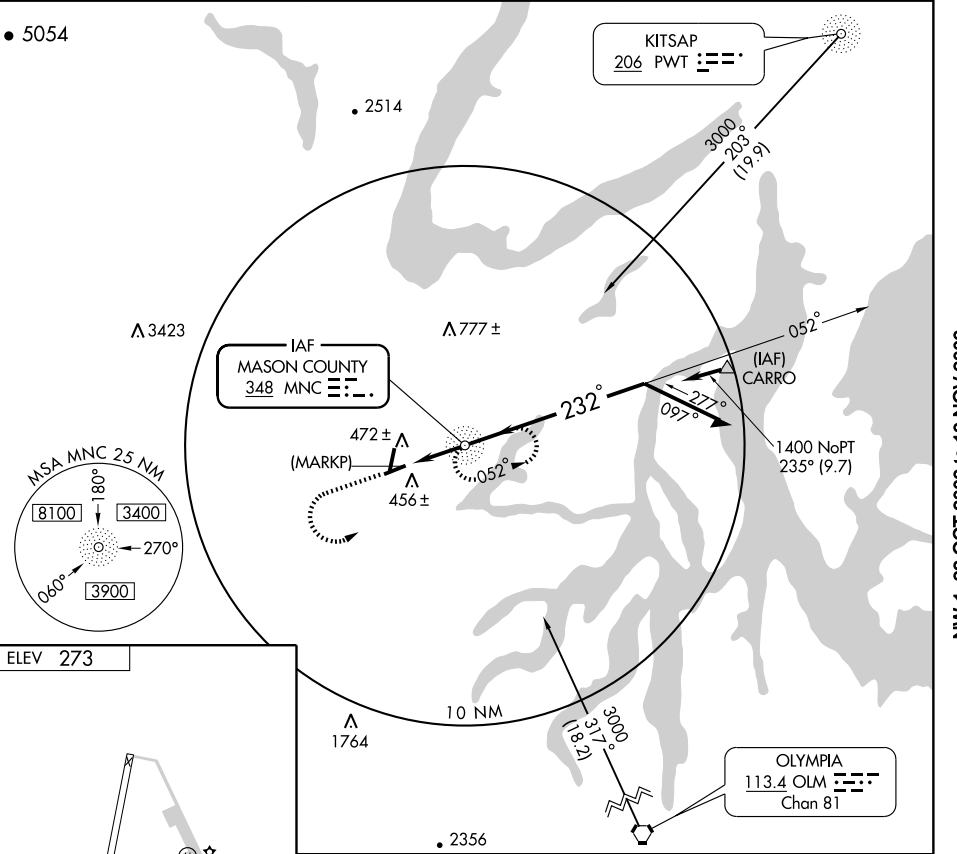
REIL Rwy 23
MIRL Rwy 5-23

▽

NA

MISSED APPROACH: Climb to 1200 then climbing left turn to 3000 direct MNC NDB and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
-----------------	--------------------------------	------------------------



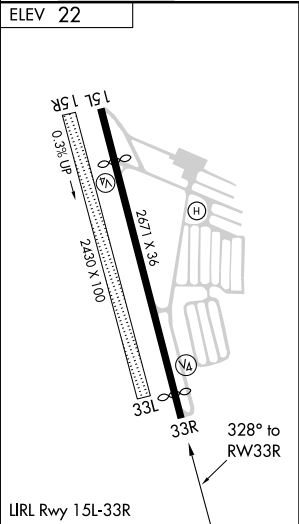
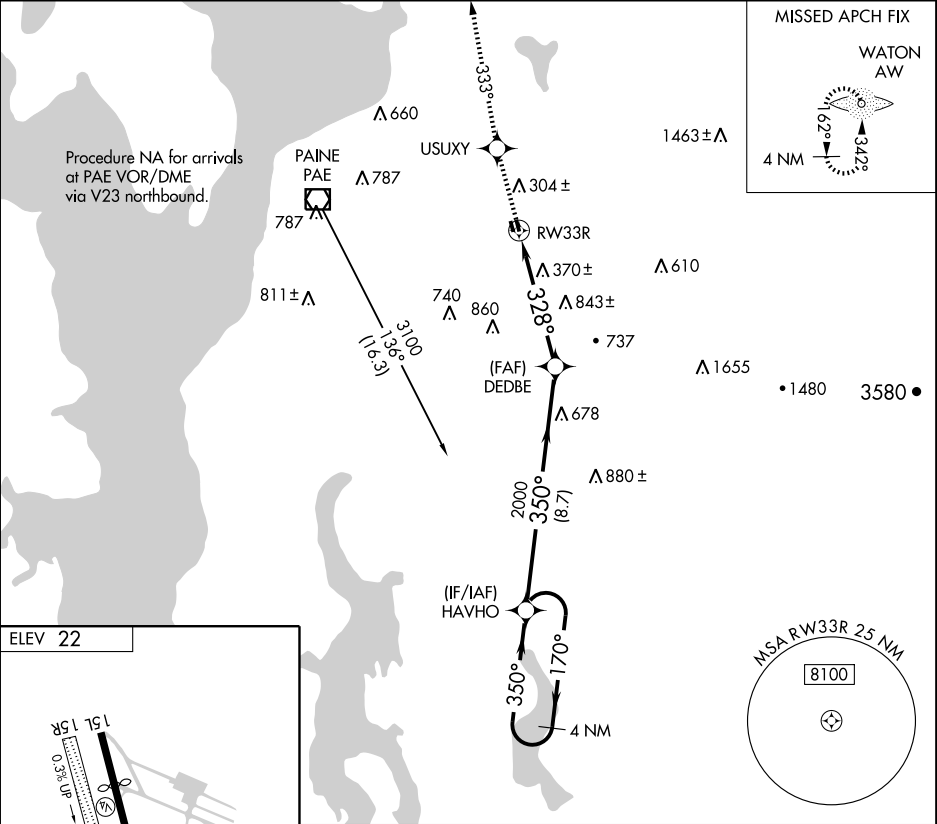
FAF to MAP 2.2 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	900-1	627 (700-1)	940-2 667 (700-2)	1000-2½ 727 (800-2¼)
Min:Sec	2:12	1:28	1:06	0:53	0:44					

APP CRS	Rwy Idg	N/A
328°	TDZE	N/A
	Apt Elev	22

RNAV (GPS)-A
SNOHOMISH/ HARVEY FIELD (S43)

<p>NA</p> <p>DME/DME RNP-0.3 NA.</p> <p>Procedure NA at night.</p> <p>Use Arlington altimeter setting. When not received, use Everett altimeter setting and increase all MDA 60 feet.</p>	<p>MISSED APPROACH: Climb to 2000 direct USUXY and via 333° track to WATON LOM and hold.</p>
--	--

ARLINGTON AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 123.0 (CTAF)
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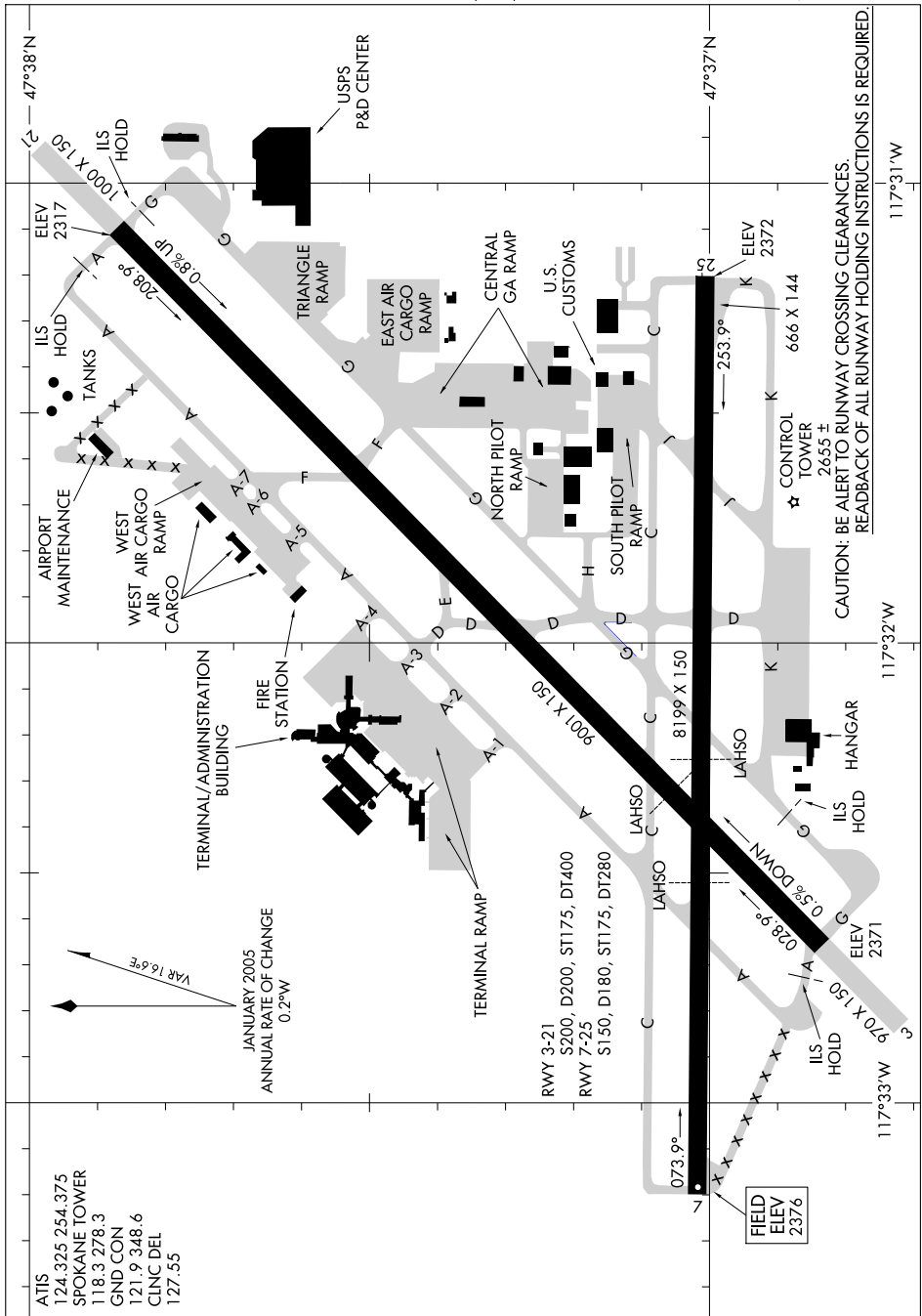


2000	USUXY	333° track	AW	HAVHO	4 NM Holding Pattern
VGSI and descent angles not coincident.		DEDBE			
RW33R		2000			
328°		350°			
5 NM		8.7 NM			
CATEGORY	A	B	C	D	
CIRCLING	1220-1¼ 1198 (1200-1¼)	1220-1½ 1198 (1200-1½)	NA		

AIRPORT DIAGRAM

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



NW-1: 22 OCT 2009 to 19 NOV 2009

SPOKANE APP CON

133.35 263.0

SPOKANE INIT ATIS

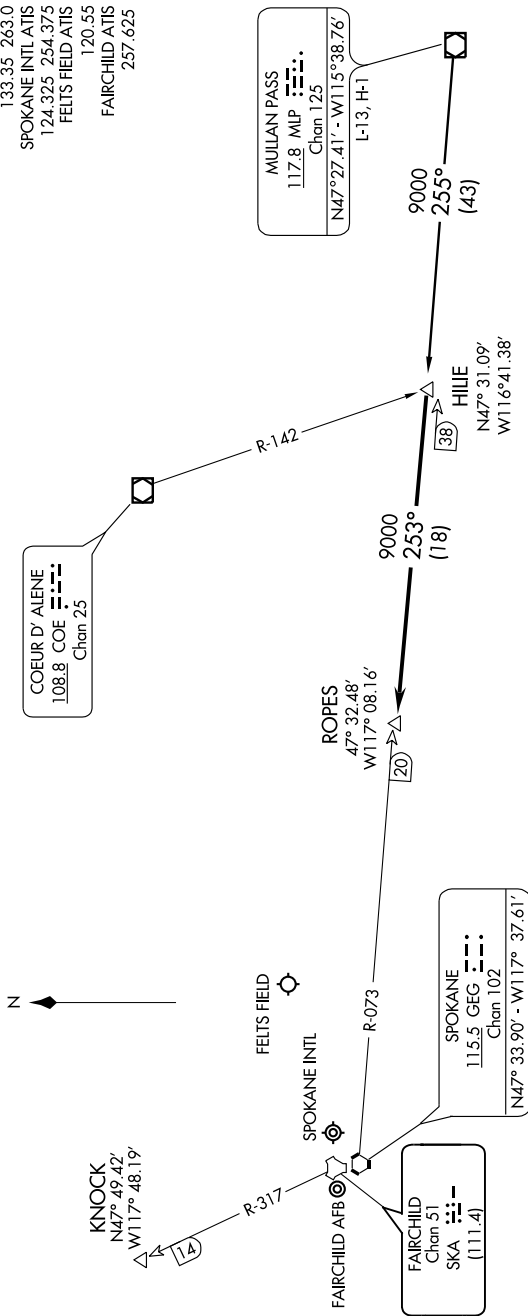
124.325 254.375

FELTS FIELD ATIS

120.55

FAIRCHILD ATIS

257.625



MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

NOTE: DME and RADAR required.

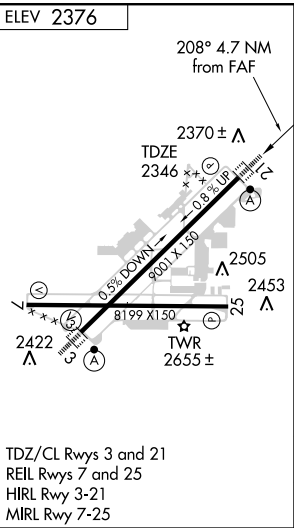
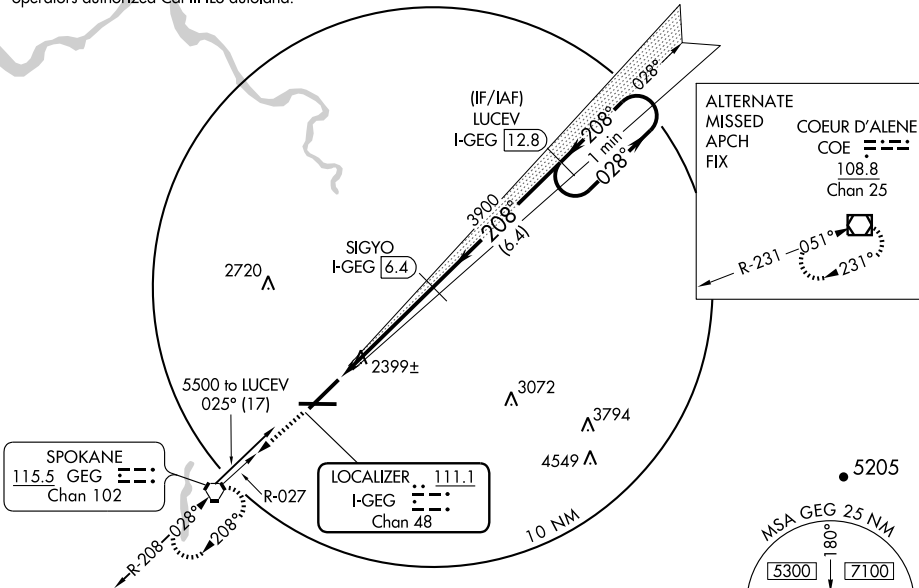
NOTE: Chart not to scale.

LOC/DME I-GEG	APP CRS	Rwy Idg	9001
111.1	208°	TDZE	2346
Chan 48		Apt Elev	2376

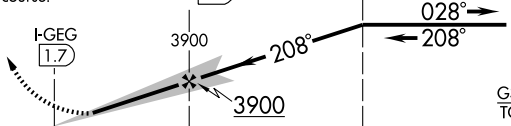
ILS or LOC/DME RWY 21
SPOKANE INTL (GEG)

⚠ For inoperative ALSF, increase S-LOC 21 Cat D visibility to 1.		ALSF-2 	MISSED APPROACH: Climb to 4200 via GEG VORTAC R-027 to GEG VORTAC and hold.	
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55

Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.



DME REQUIRED

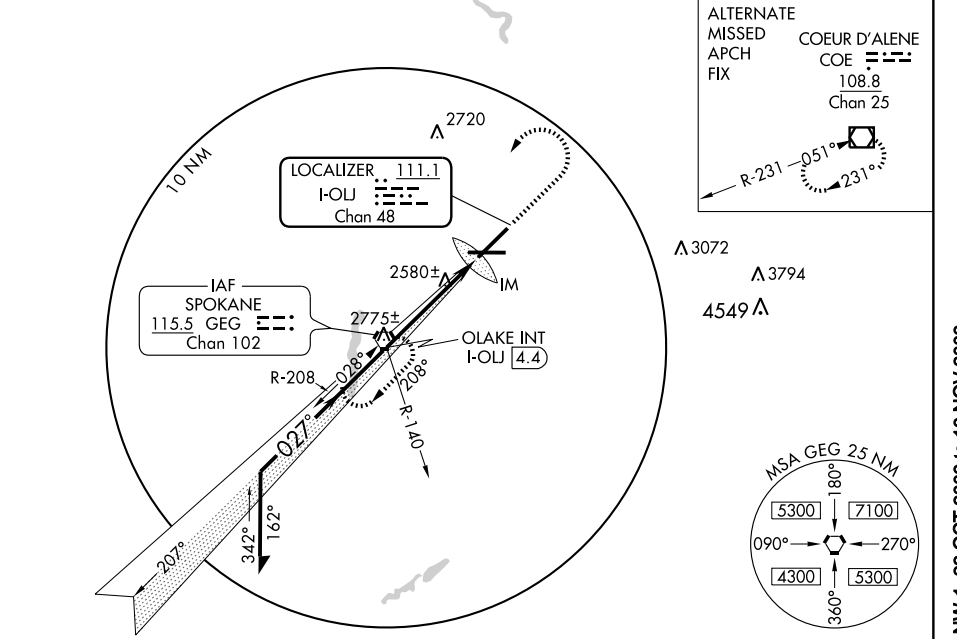
<div>4200 ↑ GEG R-027</div> <div>GEG 115.5</div>		VGSI and ILS glidepath not coincident.		LUCEV I-GEG 12.8		One Minute Holding Pattern	
Use I-GEG DME when on LOC course.		SIGYO I-GEG 6.4		3900		5500	
<div>I-GEG 1.7</div> 		3900		208°		GS 3.00° TCH 59	
4.7 NM		6.4 NM					
CATEGORY	A	B	C	D			
S-ILS 21	2546/18 200 (200-½)						
S-LOC 21	2680/24 334 (400-½)					2680/40 334 (400-¾)	
CIRCLING	2960-1 584 (600-1)			2960-1½ 584 (600-1½)		2980-2 604 (700-2)	

▼
▲

ALSF-2
A

MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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VGSI and ILS glidepath not coincident.
Use I-OLJ DME when on LOC course.

VORTAC

2900 4200 GEG 115.5

Remain within 10 NM

OLAKE INT I-OLJ 4.4

4400

027°

3900

GS 3.00° TCH 51

DME ANTENNA

IM

4.4 NM

0.2

2370± ▲

0.5% DOWN

8199 X150

2505 ▲

2453 ▲

2422 ▲

TDZE 2371

TWR 2655±

027° 4.6 NM from FAF

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

FAF to MAP 4.6 NM

CATEGORY	A	B	C	D
S-ILS 3	2571/18 200 (200-½)			
S-LOC 3	2880/24 509 (600-½)		2880/50 509 (600-1)	
CIRCLING	2960-1 584 (600-1)		2960-1½ 584 (600-1½)	2980-2 604 (700-2)

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

LOC/DME I-OLJ <u>111.1</u> Chan 48	APP CRS 027°	Rwy Idg 9001 TDZE 2371 Apt Elev 2376
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ILS RWY 3 (CAT II)
SPOKANE INTL (GEG)

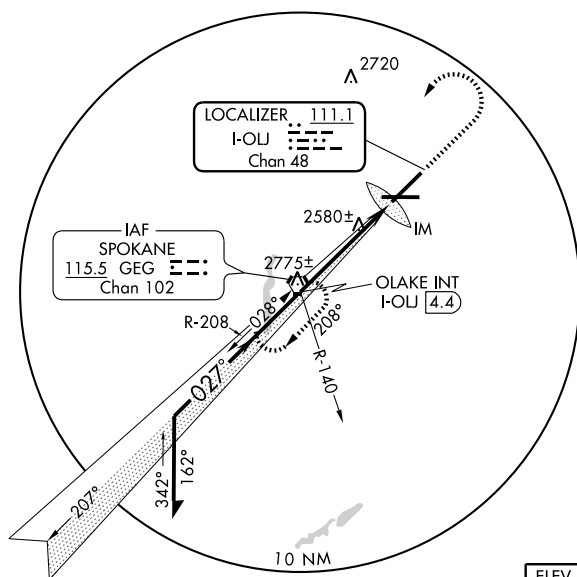



ALSF-2

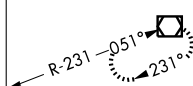


MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



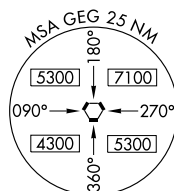
ALTERNATE
MISSED COEUR D'ALENE
APCH COE 
FIX 108.8
Chan 25



A 3072

A 3794

4549A



ELEV 2376

VGSI and ILS glidepath not coincident.

Remain
within 10 NM

VORTAC

2900

4200

GEG

115.5

Use I-OU DME when on LOC course.

4400 $\begin{matrix} \nearrow 20^\circ \\ \searrow 027^\circ \end{matrix}$

GS 3.00°

TCH 51

390

OLAKE INT
I-OLJ 4.4

DH
RA 96

DME
ANTENNA
|

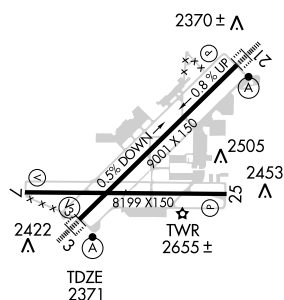
7

0.5% DC 900

245

CATEGORY	A	B	C	D
S-ILS 3	2471/12 100 RA 96			

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**



TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

AL-403 (FAA)

ILS RWY 21 (CAT II)
SPOKANE INTL (GEG)



ALSF-2



MISSED APPROACH: Climb to 4200 via
GEG VORTAC R-027 to GEG VORTAC and hold.

ATIS
124.325 254.375

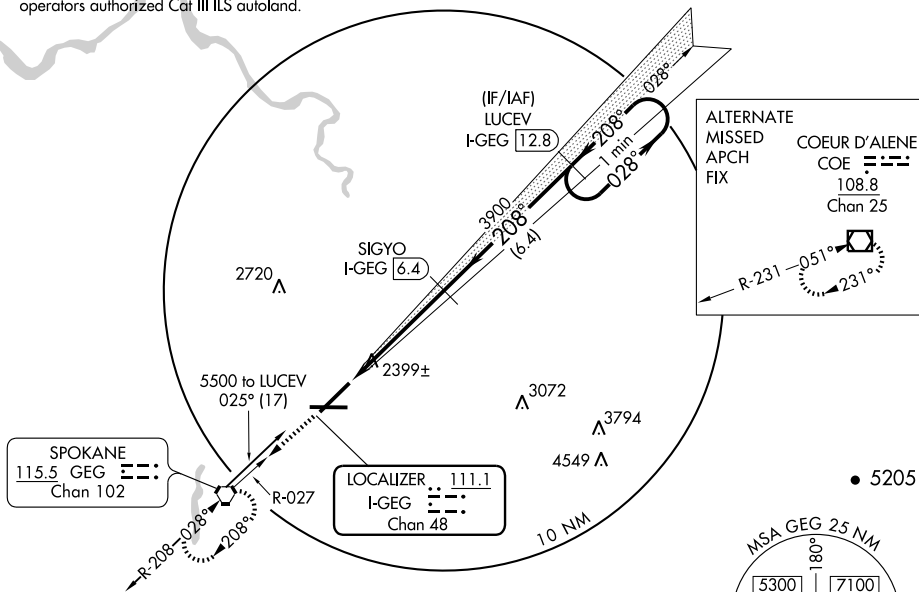
SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)

SPOKANE TOWER
118.3 278.3

GND CON
121.9 348.6

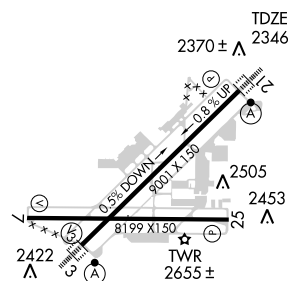
CLNC DEL
127.55

Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.




NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 2376



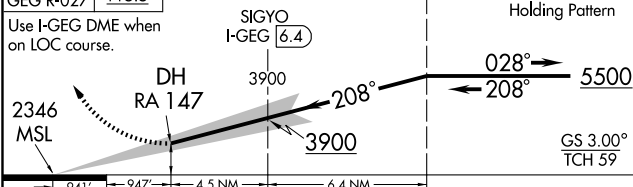
DME REQUIRED

4200 ↑ GEG R-027	GEG  <u>115.5</u>
Use I-GEG DME when on LOC course.	

VGSI and ILS glidepath
not coincident.

LUCEV
I-GEG 12.8

One Minute Holding Pattern



CATEGORY

A

B

1

□

S-LS 21

2446/16 100 RA 147

**CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED**

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

LOC/DME I-GEG <u>111.1</u> Chan 48	APP CRS 208°	Rwy Idg 9001 TDZE 2346 Apt Elev 2376
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ILS RWY 21 (CAT III)
SPOKANE INTL (GEG)



ALSF-2



MISSED APPROACH: Climb to 4200 via
GEG VORTAC R-027 to GEG VORTAC and hold.

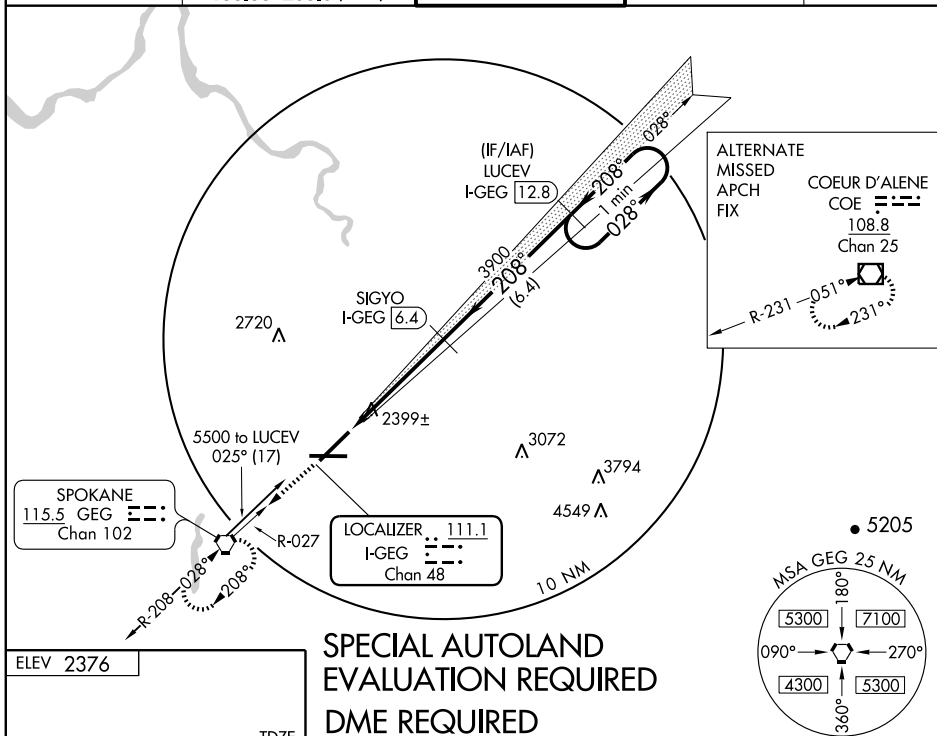
ATIS
124.325 254.375

SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)

SPOKANE TOWER
118.3 278.3

GND CON
121.9 348.6

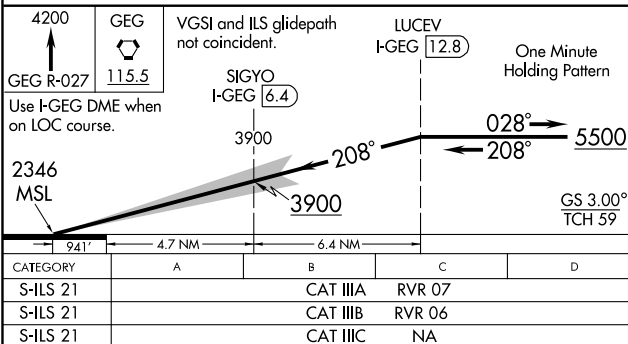
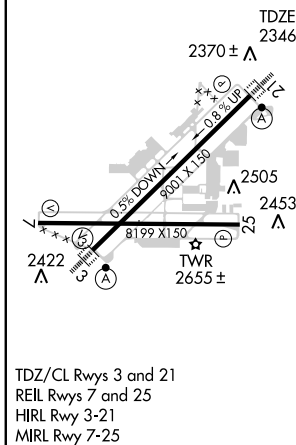
CLNC DEL
127.55



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 2376

SPECIAL AUTOLAND
EVALUATION REQUIRED
DME REQUIRED



CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

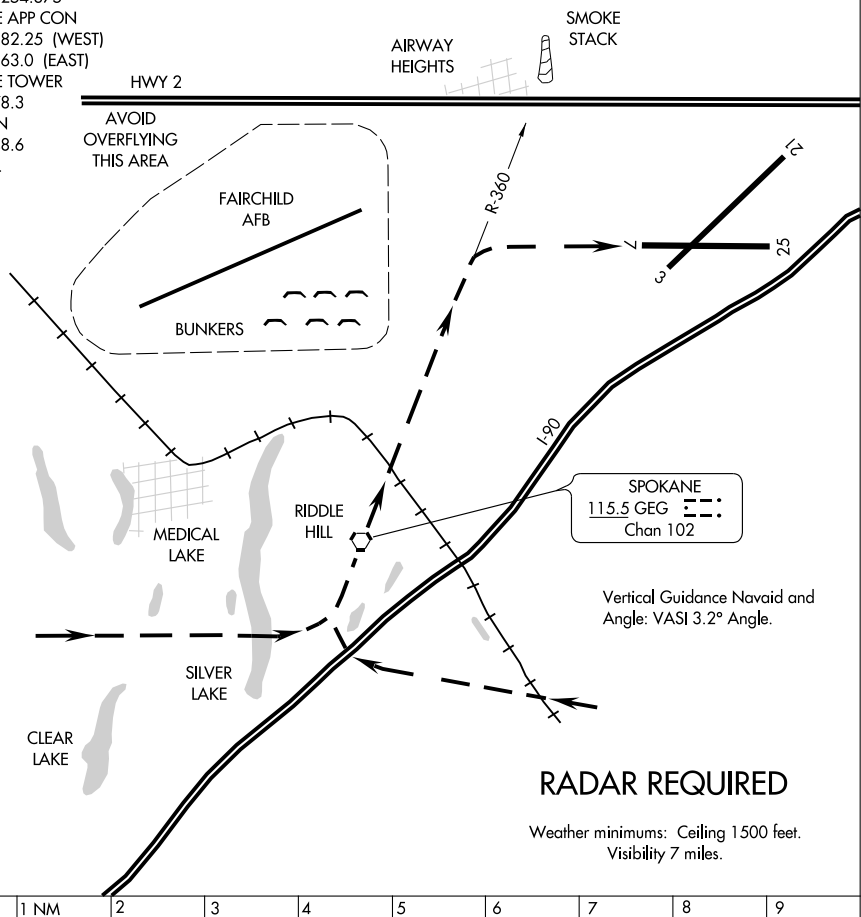
TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

RIDDLE HILL VISUAL RWY 7

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON

ATIS
124.325 254.375
SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)
SPOKANE TOWER
118.3 278.3
GND CON
121.9 348.6
CLNC DEL
127.55



RIDDLE HILL VISUAL APPROACH RWY 7

PROCEDURE NOT AUTHORIZED AT NIGHT.

▼

DME/DME RNP- 0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -19°C (-2°F) or above 43°C (110°F).

ALSF-2

MISSED APPROACH: Climb to 5000 direct PHORT LOM
and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	2979-2 608 (700-2)			
LNAV MDA	3020/24 649 (700-½)	3020/60 649 (700-¼)	3020-1½ 649 (700-½)	3020-2 649 (700-½)
CIRCLING	3020-1 644 (700-1)	3020-1¾ 644 (700-¾)	3020-2 644 (700-2)	3020-2 644 (700-2)

NW-1, 22 OCT 2009 to 19 NOV 2009

WAAS CH 48801 W07A	APP CRS 072°	Rwy Idg TDZE Apt Elev	8199 2376 2376
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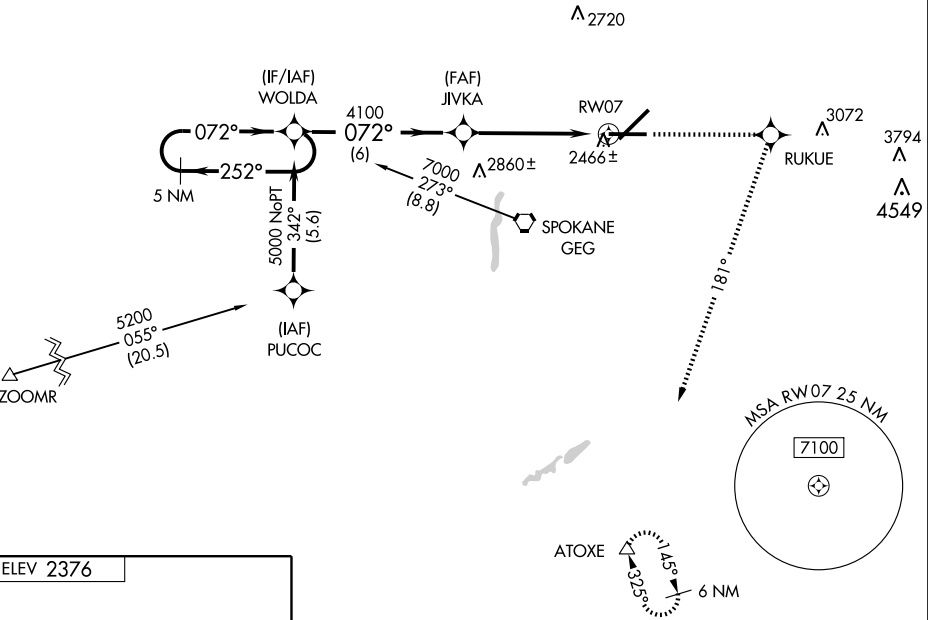
RNAV (GPS) RWY 7
SPOKANE INTL (GEG)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

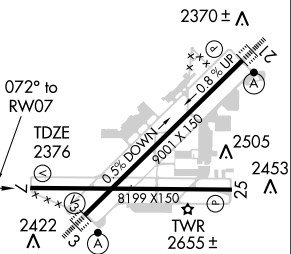
MISSED APPROACH: Climb to 6000 direct RUKUE and via 181° track to ATOXE and hold, continue climb-in-hold to 6000.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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Procedure NA for arrivals at GEG VORTAC via V120 northbound.



ELEV 2376



TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

5 NM Holding Pattern		WOLDA		6000 ↑	RUKUE ✦	181° track	ATOXE △
5000 ← 252° 072° →		JIVKA *1.1 NM to RW07		*LNAV only		RW07	
GS 3.00° TCH 60		4100		6 NM		4.1 NM	
		1.1					
CATEGORY	A	B	C	D			
LPV DA	2626-1 250 (300-1)						
LNAV/ VNAV DA	2786-1½ 410 (500-1½)						
LNAV MDA	2800-1	424 (500-1)	2800-1¼ 424 (500-1¼)				
CIRCLING	2960-1	584 (600-1)	2960-1½ 584 (600-1½)		2980-2 604 (700-2)		

APP CRS	Rwy Idg	9001
208°	TDZE	2346
	Apt Elev	2376

RNAV (GPS) RWY 21

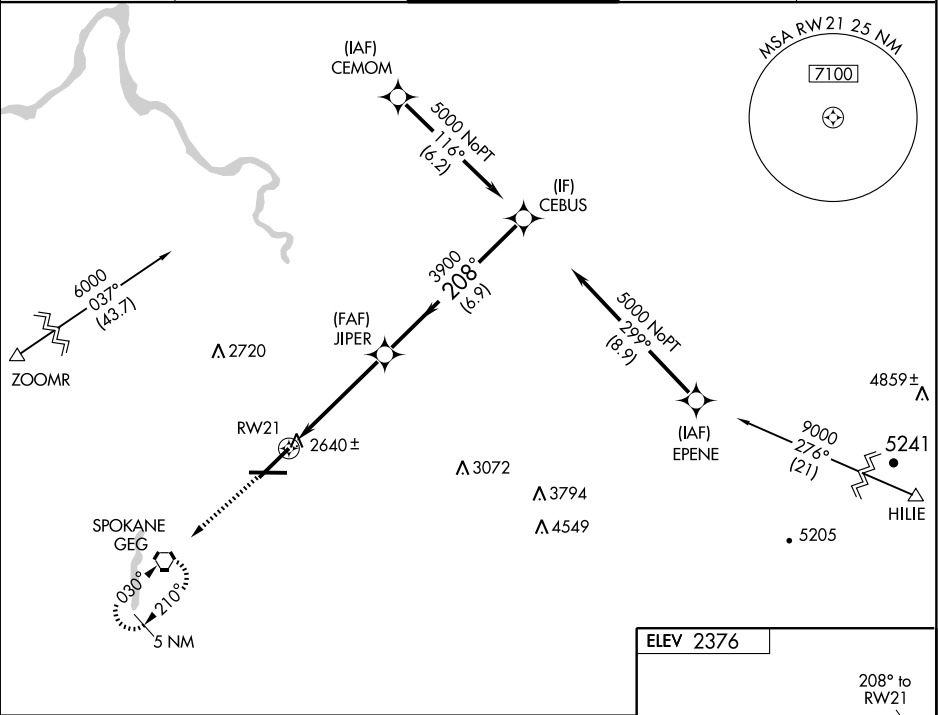
SPOKANE INTL (GEG)

V For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



4200

GEG

VGSI and RNAV glidepath not coincident.

*LNAV only

CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	2720/50 374 (400-1)			2720/50 374 (400-1)
LNAV MDA	2800/24 454 (500-½)	2800/40 454 (500-¾)	2800/50 454 (500-1)	2800/50 454 (500-1)
CIRCLING	2960-1 584 (600-1)	2960-1 584 (600-1)	2960-1½ 584 (600-1½)	2980-2 604 (700-2)

ELEV 2376

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

WAAS CH 93501 W25A	APP CRS 253°	Rwy Idg 8199 TDZE 2372 Apt Elev 2376
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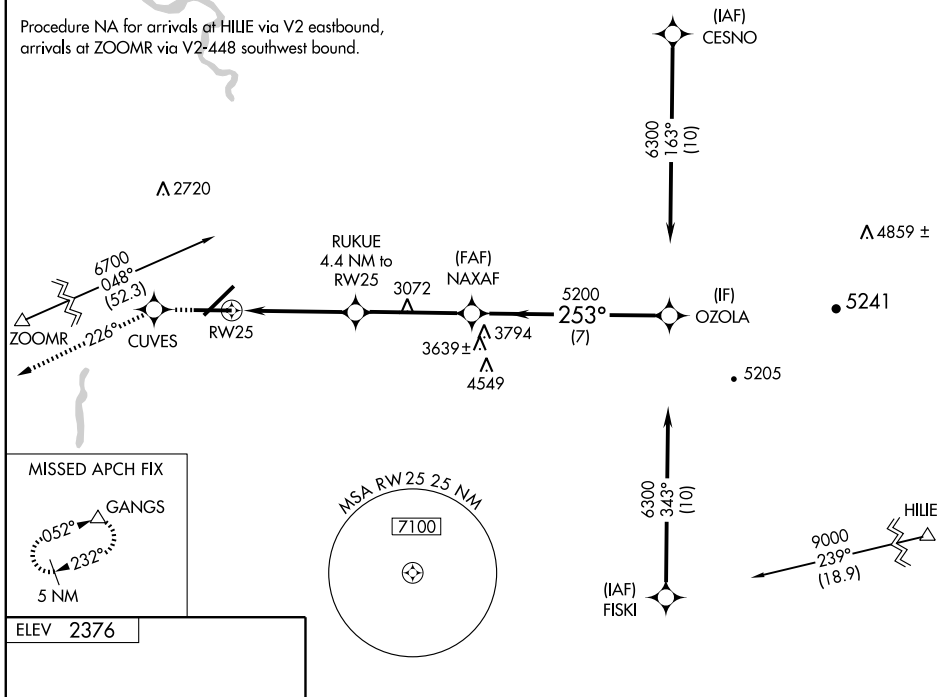
RNAV (GPS) RWY 25

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

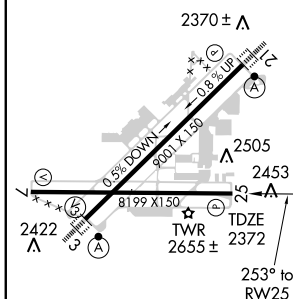
MISSED APPROACH: Climb to 5000 direct CUVES and via 226° track to GANGS and hold.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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Procedure NA for arrivals at HILIE via V2 eastbound,
arrivals at ZOOMR via V2-448 southwest bound.



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 2376

5000 ↑	CUVES ✦	226° track	GANGS △	NAXAF	OZOLA
*LNAV only RW25 *1.5 NM to RW25 RUKUE 4.4 NM to RW25				253° 5200	6300 Procedure Turn NA GS 3.00° TCH 50
			3820*		

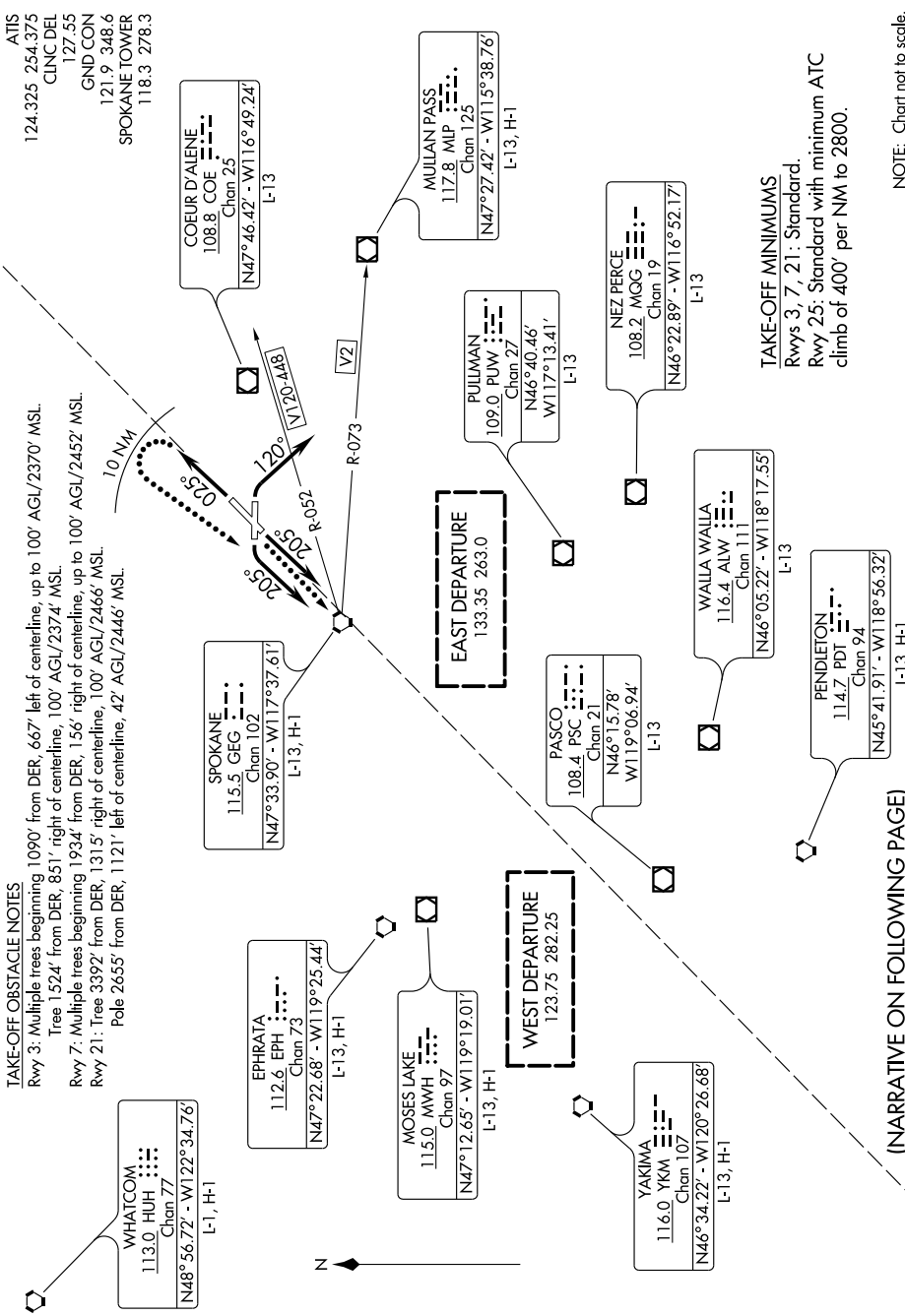
		1.5 NM		2.9 NM		4.1 NM		7 NM	
CATEGORY		A		B		C		D	
LPV	DA	2704-1¼				332 (400-1¼)			
LNAV/ VNAV	DA	2782-1½				410 (500-1½)			
LNAV	MDA	2900-1		528 (600-1)		2900-1½ 528 (600-½)		2900-1¾ 528 (600-¾)	
CIRCLING		2960-1		584 (600-1)		2960-1½ 584 (600-½)		2980-2 604 (700-2)	

TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25

SPOKANE EIGHT DEPARTURE

SL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SPOKANE EIGHT DEPARTURE

SL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Turn left heading 025°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 7: Turn right heading 120°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 25: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

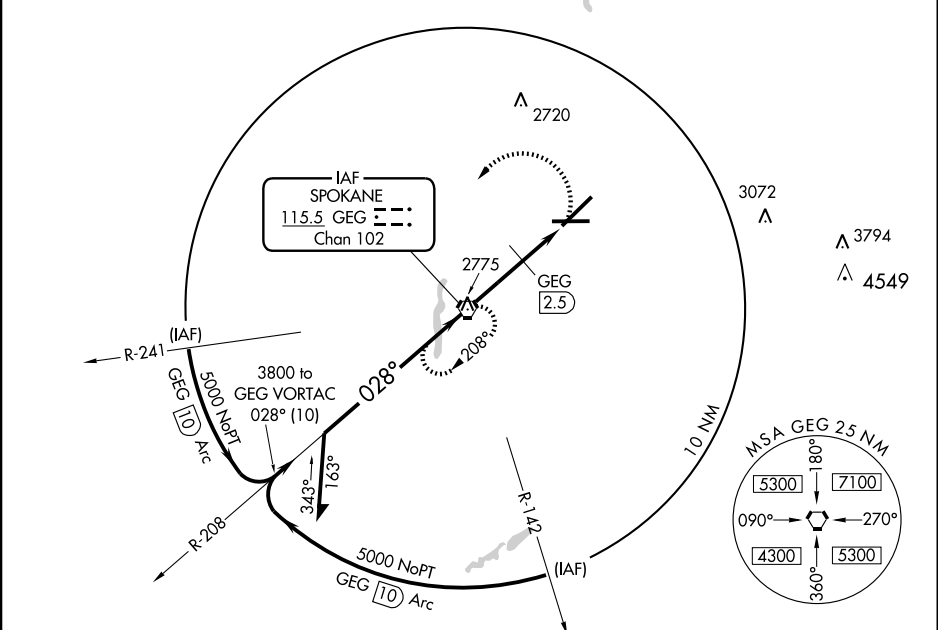
....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V120-448 3900'; E-bound V2 4200'. Aircraft departing RWY 3, if not in contact with ATC within 10 NM after takeoff, turn left direct GEG VORTAC, cross GEG VORTAC at or above 4200', thence via assigned fix/route.

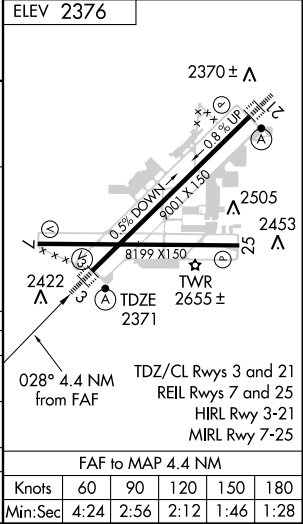
VOR RWY 3
SPOKANE INTL (GEG)

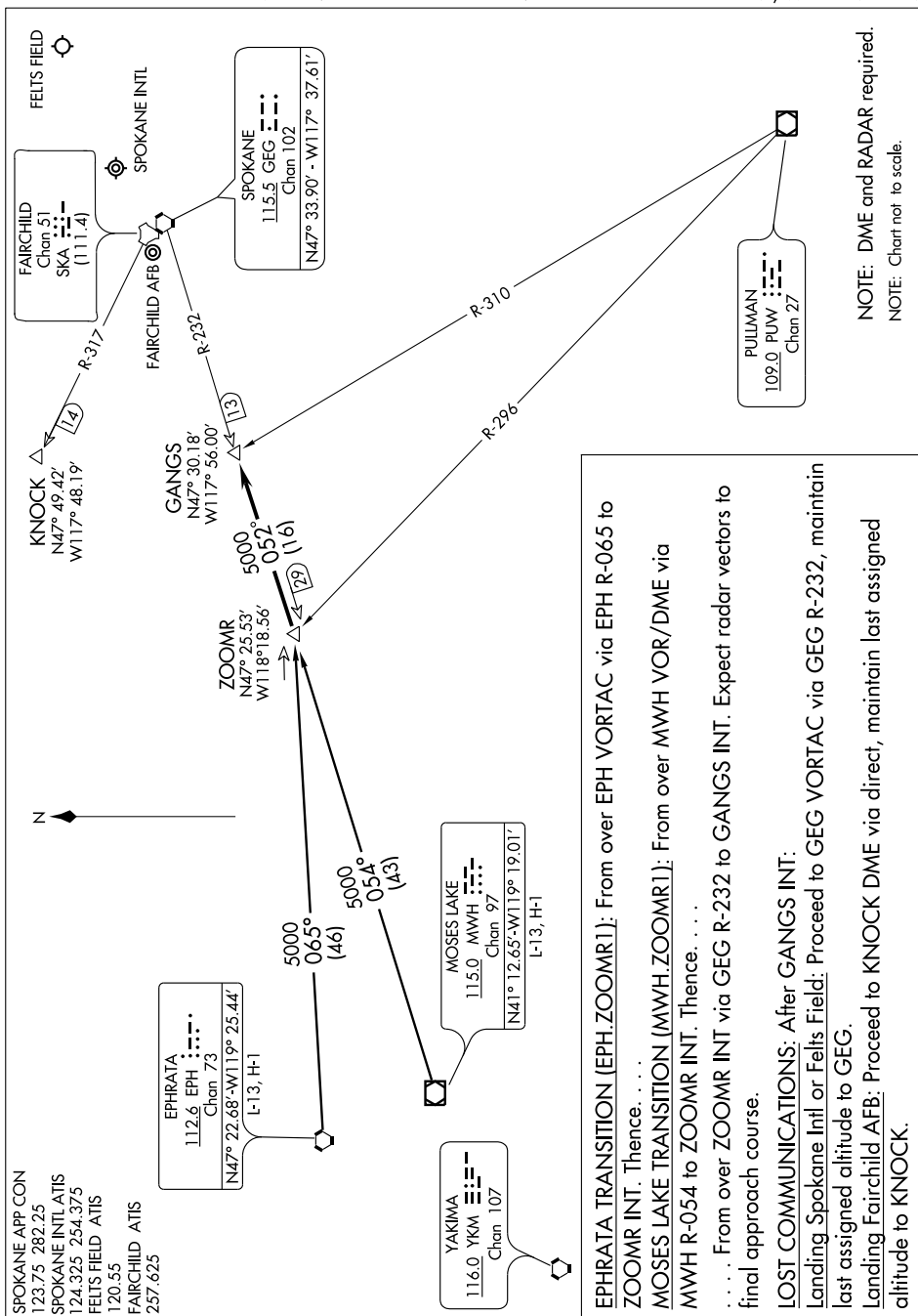
VORTAC GEG 115.5 Chan 102	APP CRS 028°	Rwy Idg TDZE Apt Elev	9001 2371 2376
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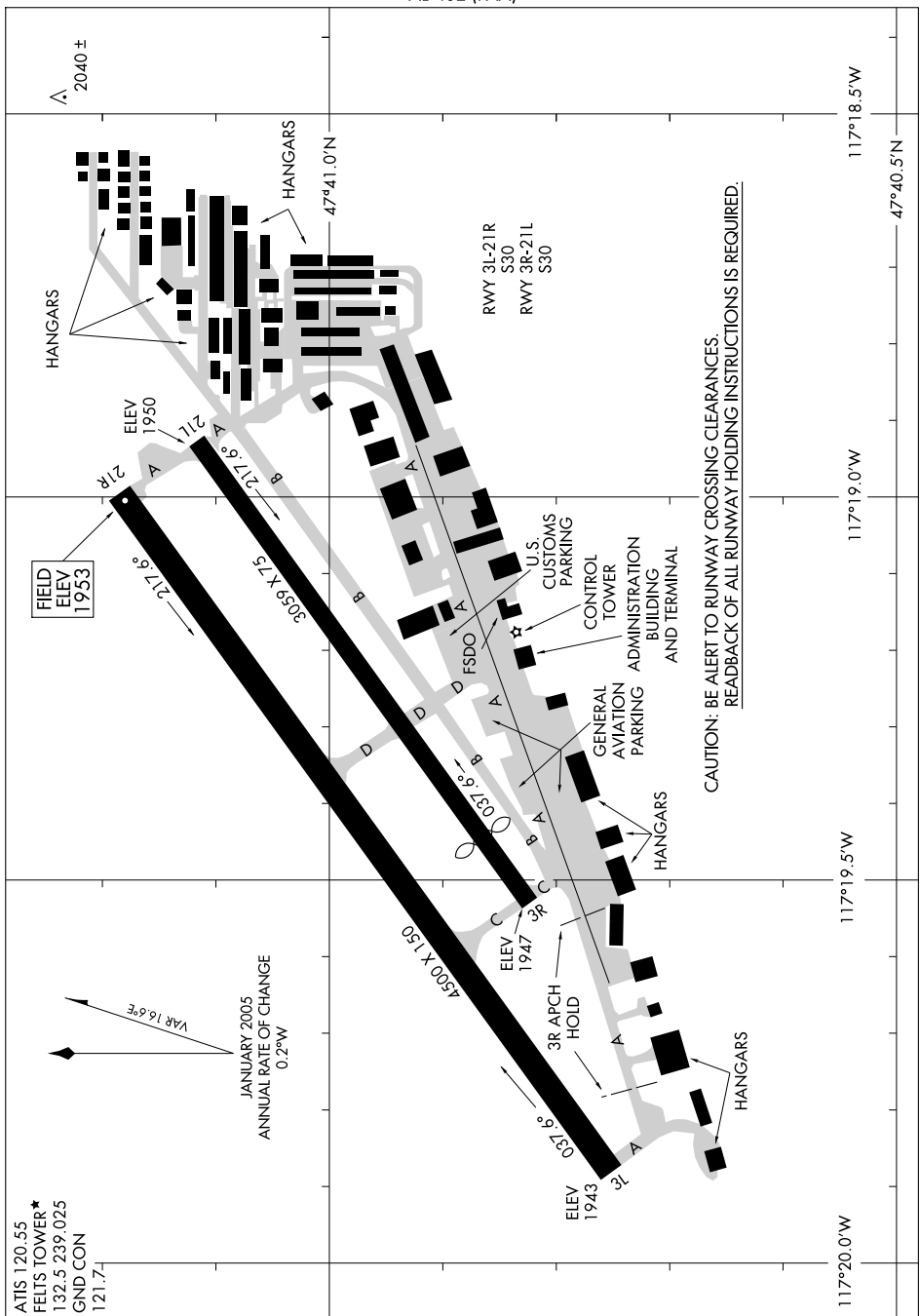
<div><div>V</div><div>A</div></div>	Circling Southeast of Rwy 3-21 not authorized Category E.	<div>ALSF-2</div> <div><div>A</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>	MISSED APPROACH: Climbing left turn to 4200 direct to GEG VORTAC and hold.		
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55	



<p>† Remain within 10 NM</p> <p>VORTAC</p> <p>4200</p> <p>208°</p> <p>028°</p> <p>3800</p> <p>2960</p> <p>2.90° TCH 54</p> <p>2.5 NM</p> <p>0.5</p> <p>1.4 NM</p> <p>4200</p> <p>GEG 2.5</p> <p>GEG 3</p> <p>GEG 115.5</p>					
<p>† Procedure turn not authorized Category E</p>					
CATEGORY	A	B	C	D	E
S-3	2960/24	589 (600-½)	2960/50 589 (600-1)	2960/60	589 (600-1¼)
CIRCLING	2960-1	584 (600-1)	2960-1½ 584 (600-1½)	2960-2 584 (600-2)	3080-2½ 704 (800-2½)
DME MINIMA					
S-3	2880/24	509 (600-½)	2880/50 509 (600-1)	2880/60	509 (600-1¼)

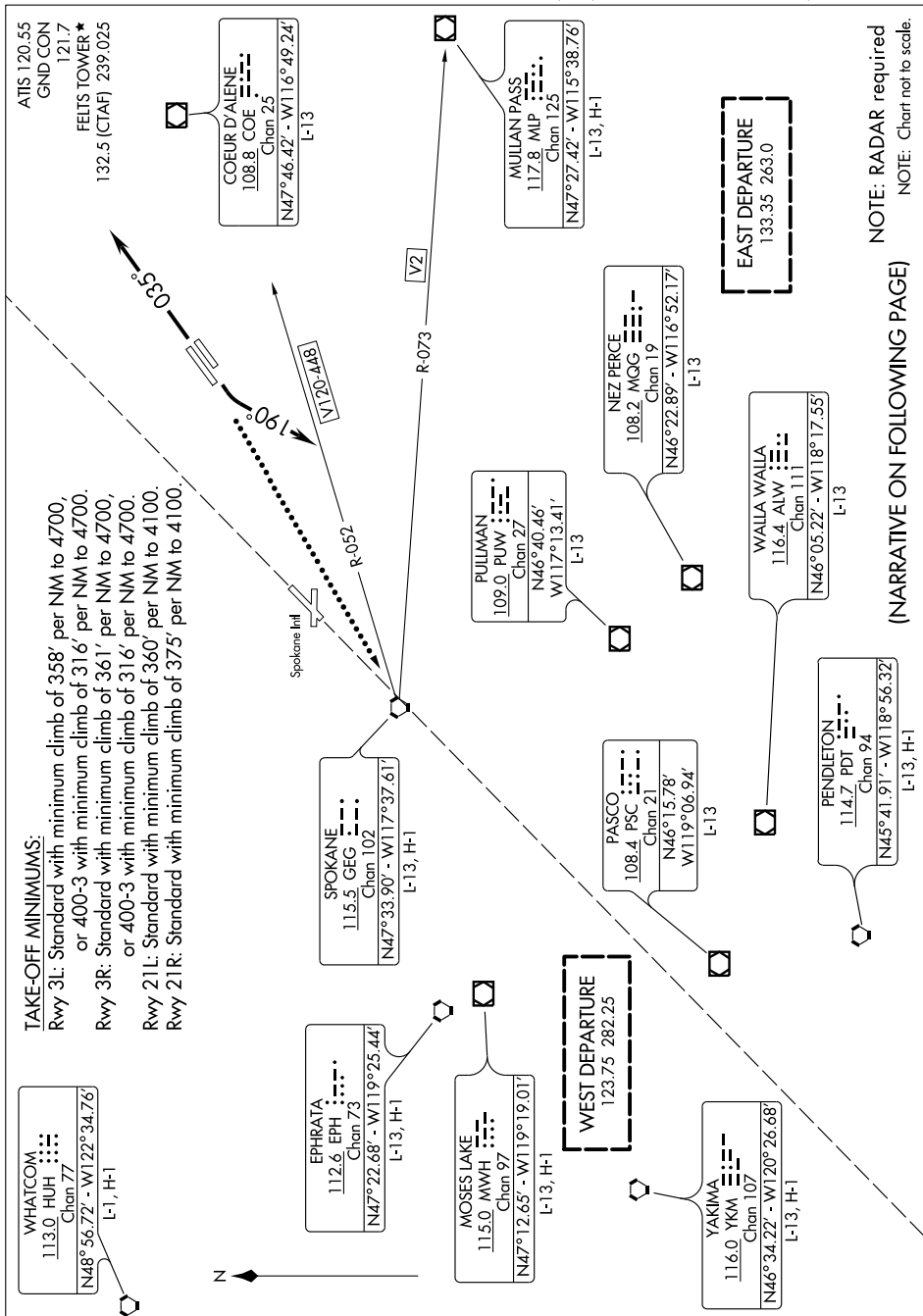






FELTS ONE DEPARTURE

SL-402 (FAA)

SPOKANE/FELTS FIELD (SFF)
SPOKANE, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3L/R: Climb heading 035°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21L/R: Turn left heading 190°, expect radar vectors to assigned airway/route. Thence....

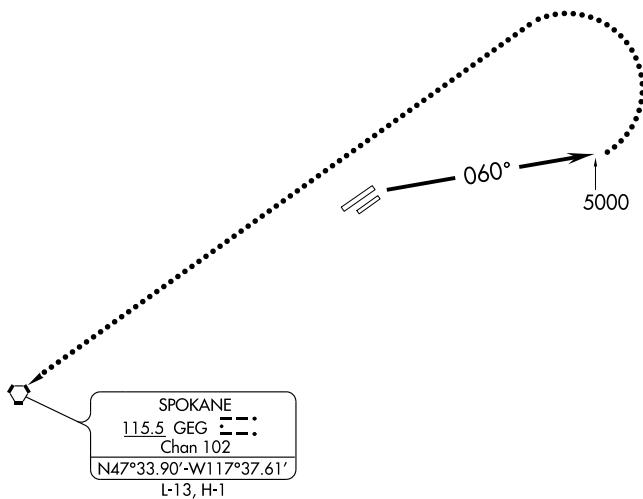
....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V1 20-448 3900'; E-bound V2 4200'.

TAKE-OFF OBSTACLE NOTES

- Rwy 3L: Multiple trees beginning 5000' from DER, 530' left of centerline, up to 100' AGL/2295' MSL.
Multiple trees beginning 1854' from DER, 773' right of centerline, up to 100' AGL/2037' MSL.
- Rwy 3R: Multiple trees beginning 5016' from DER, 1033' left of centerline, up to 100' AGL/2295' MSL.
Multiple trees beginning 1870' from DER, 271' right of centerline, up to 100' AGL/2037' MSL.
Hangar 92' from DER, 341' right of centerline, 35' AGL/1967' MSL.
NDB 925' from DER, 270' right of centerline, 10' AGL/1987' MSL.
- Rwy 21L: Multiple trees beginning 926' from DER, 184' left of centerline, up to 100' AGL/2006' MSL.
Multiple bldgs and OL on bldg 316' from DER, 110' left of centerline, up to 35' AGL/1992' MSL.
Elevator 4080' from DER, 598' left of centerline, 50' AGL/2080' MSL.
- Rwy 21R: Multiple trees beginning 189' from DER, 404' right of centerline, up to 100' AGL/1979' MSL.
Multiple OL on bldgs and hangars 204' from DER, 230' left of centerline, up to 35' AGL/1973' MSL.
Elevator 2655' from DER, 1097' left of centerline, 50' AGL/2080' MSL.
Multiple poles and OL on poles 659' from DER, 2' left of centerline, up to 42' AGL/1982' MSL.
Multiple poles and OL on poles 1252' from DER, 13' right of centerline, up to 42' AGL/1982' MSL.

ATIS 120.55
GND CON
121.7
FELTS TOWER ★
132.5 (CTAF) 239.025
SPOKANE DEP CON
133.35 263.0



NOTE: This SID requires a minimum climb of 340' per NM to 5000' (850FPM/150K or 1133FPM/200K), or, 2600' ceiling and 2 miles visibility.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 3L/R: Climb via heading 060° until reaching 5000' for vector to (assigned route) or (fix).

LOST COMMUNICATIONS: If not in contact with departure control after leaving 3000', continue climb to 5000' turn left proceed direct to GEG VORTAC and thence on course.



LOC/DME I-FLZ <u>111.7</u> Chan 54	APP CRS 218°	Rwy Idg 4500 TDZE 1953 Apt Elev 1953
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ILS/DME RWY 21R
SPOKANE / FELTS FIELD (SFF)

T	Circling not authorized northwest of Rwy 3L-21 R.
A	Inoperative table does not apply.

MALSR

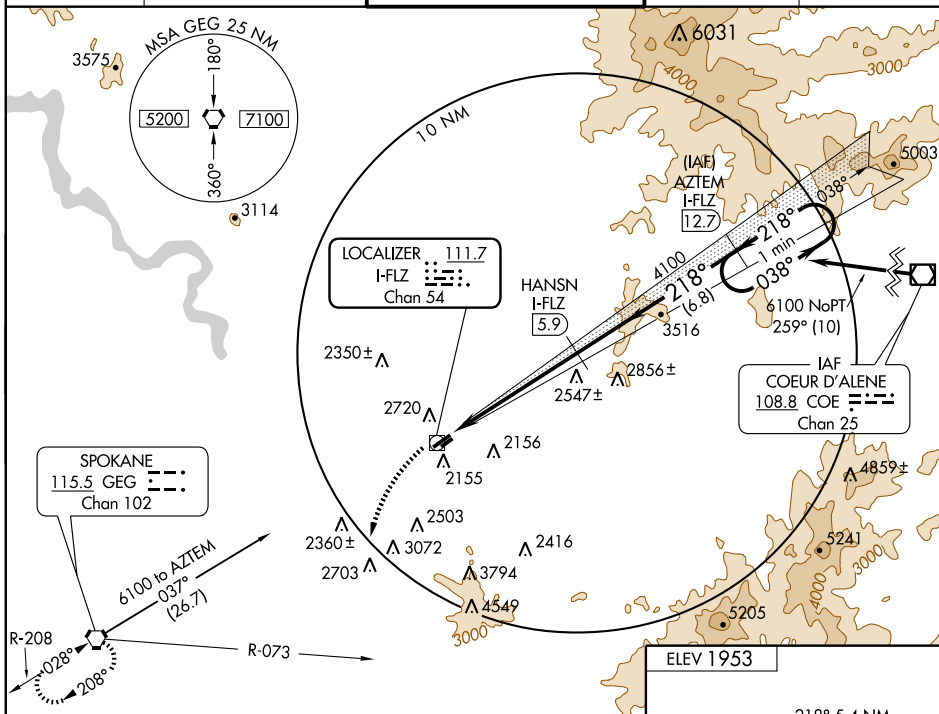
MISSED APPROACH: Climb to 3100 then climbing left turn to 5000 via heading 200° and GEG R-073 to GEG VORTAC and hold.


ATIS
120.55

SPOKANE APP CON
133.35 263.0

FELTS TOWER ★
132.5 (CTAF) **L** 239.025

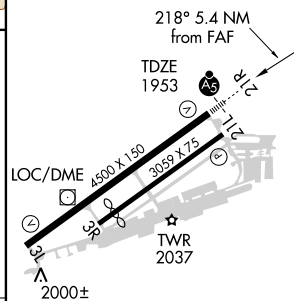
GND CON
121.7

UNICOM
122.95

3100 ↑	5000 ↙ HDG 200°	GEG R-073 <u>115.5</u>	GEG  <u>115.5</u>
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AZTEM
I-FLZ 12.7
One Minute
Holding Pattern

ELEV 1953




CATEGORY	A	B	C	D
S-ILS 21R	2223-3 $\frac{3}{4}$ 270 (300-3 $\frac{3}{4}$)			NA
S-LOC 21R	2860-1 $\frac{1}{4}$ 907 (1000-1 $\frac{1}{4}$)		2860-2 $\frac{3}{4}$ 907 (1000-2 $\frac{3}{4}$)	NA
CIRCLING	2860-1 $\frac{1}{4}$ 907 (1000-1 $\frac{1}{4}$)		2860-2 $\frac{3}{4}$ 907 (1000-2 $\frac{3}{4}$)	NA

REIL Rwy 3L **L**
MIRL Rwy 3L-21R

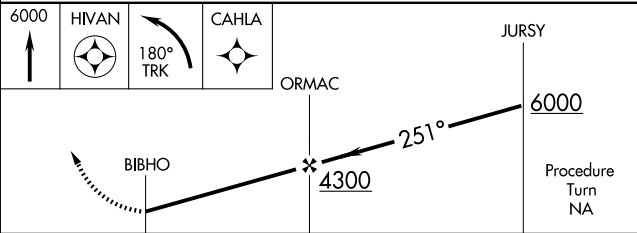
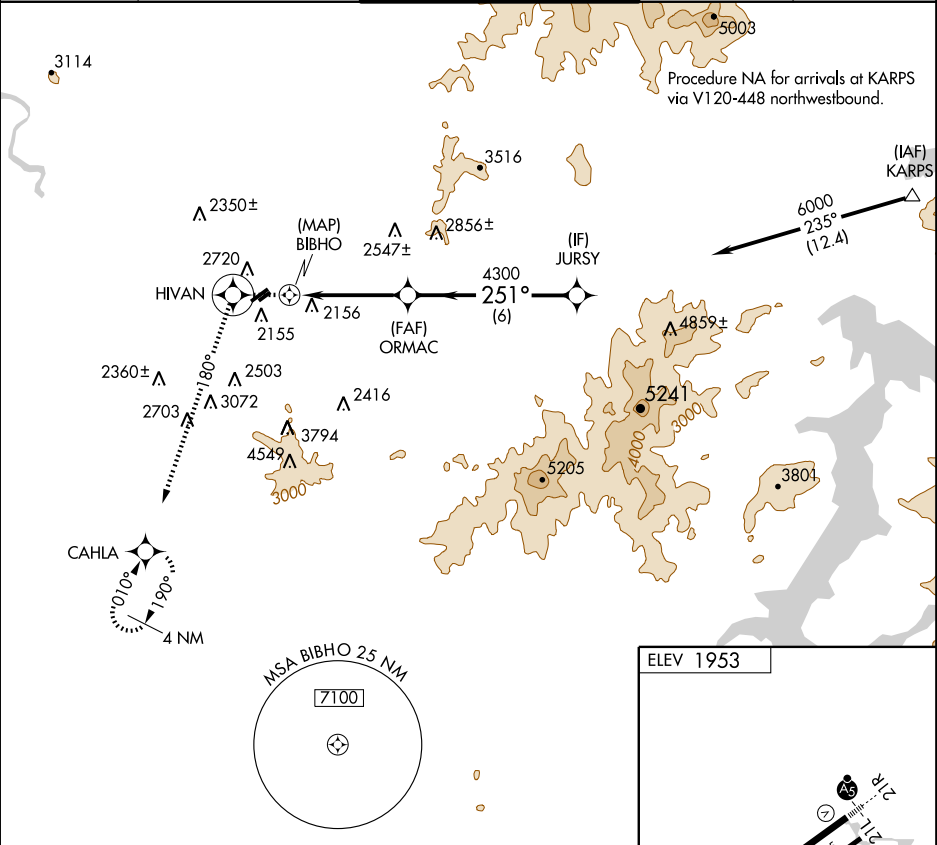
RNAV (GPS)-A

SPOKANE / FELTS FIELD (SFF)

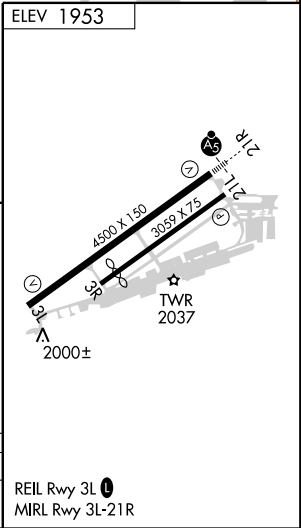
APP CRS	Rwy Idg	N/A
251°	TDZE	N/A
	Apt Elev	1953

 	DME/DME RNP- 0.3 NA. Circling NA northwest of Rwy 3L-21R.	MISSED APPROACH: Climb to 6000 direct HIVAN and left turn via 180° track to CAHLA and hold.
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ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 239.025	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	2880-1¼ 927 (1000-1¼)	2880-2¾ 927 (1000-2¾)	2880-3 927 (1000-3)	2880-3 927 (1000-3)



VORTAC GEG	APP CRS	Rwy Idg	4500
115.5	039°	TDZE	1945
Chan 102		Apt Elev	1953

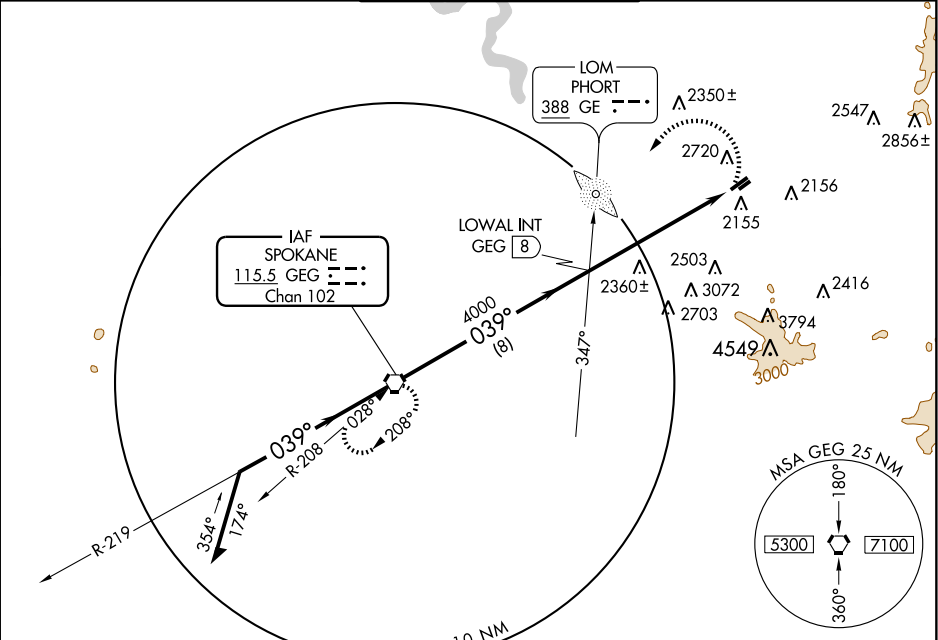
VOR RWY 3L
SPOKANE / FELTS FIELD (SFF)



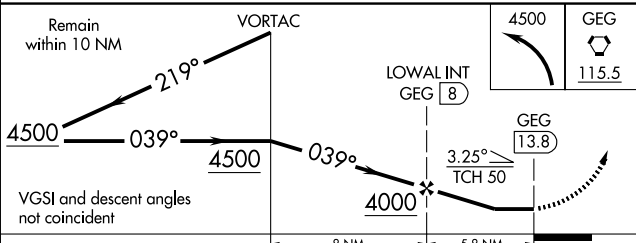
Circling not authorized northwest of Rwy 3L-21R.

MISSED APPROACH: Climbing left turn to 4500 direct GEG VORTAC and hold.

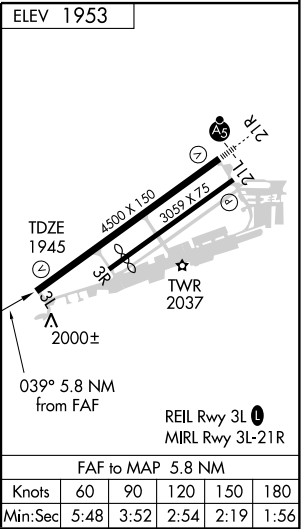
ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 239.025	GND CON 121.7	UNICOM 122.95
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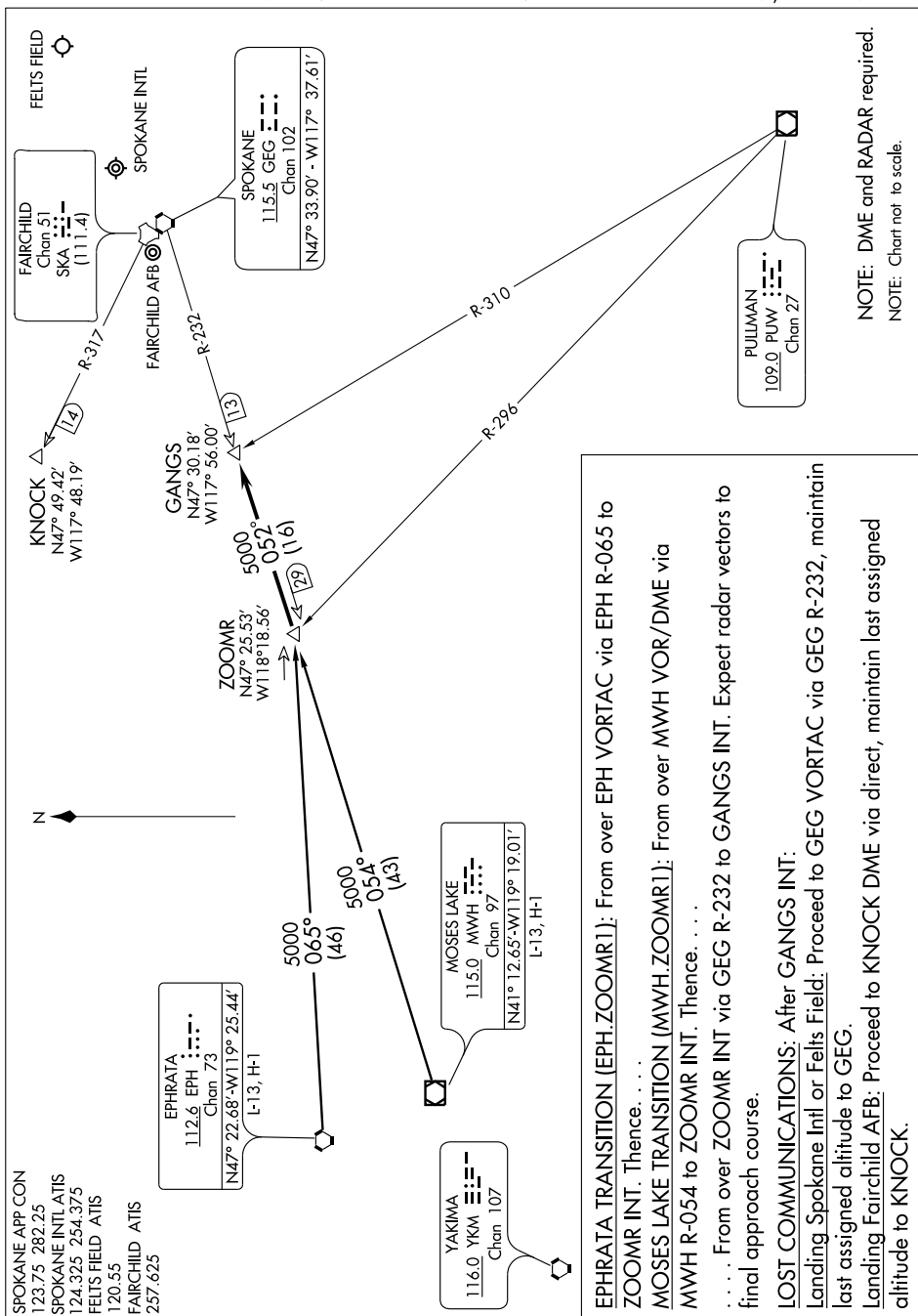
ADF or DME REQUIRED

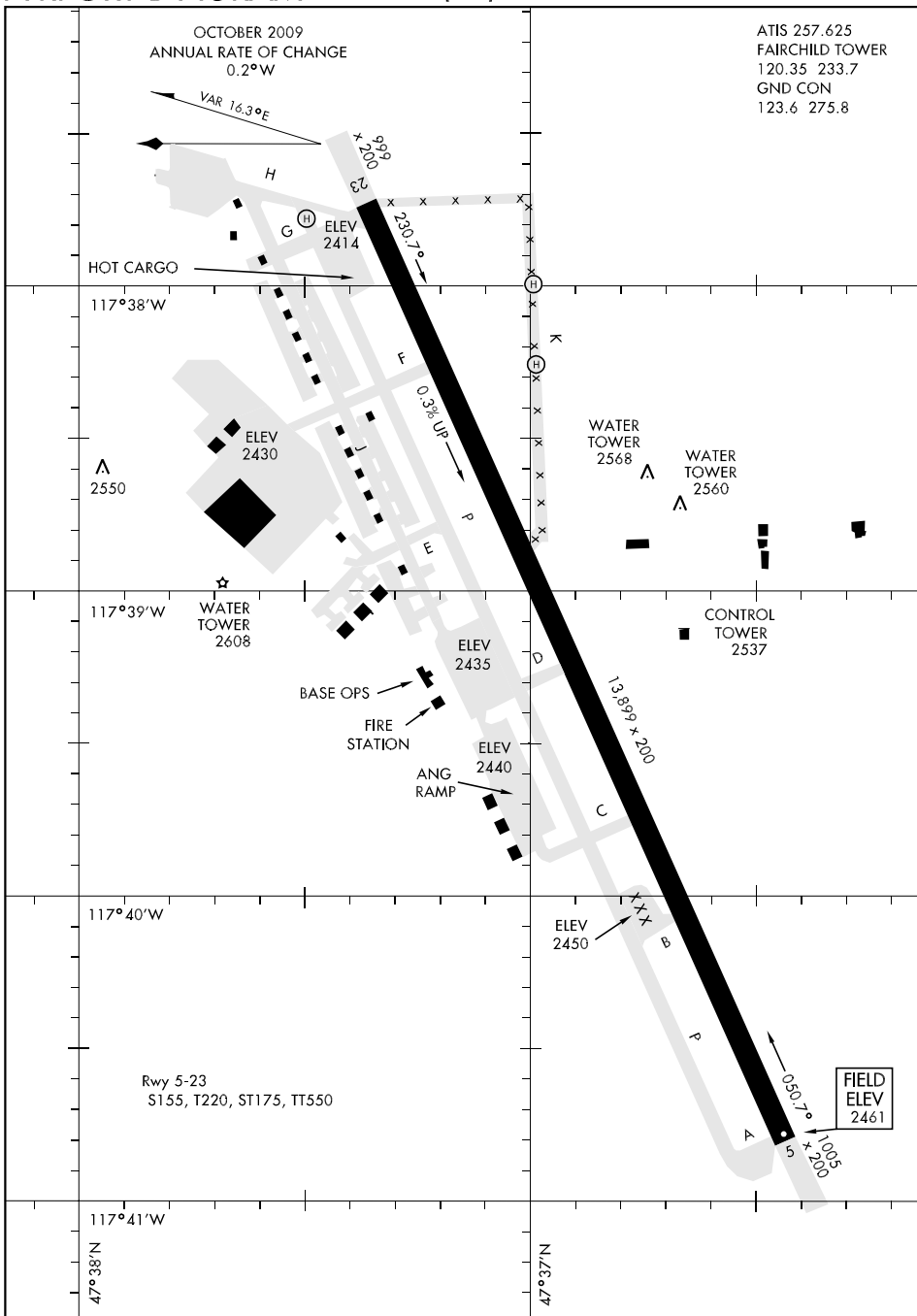


CATEGORY	A	B	C	D
S-3L	2920-1¼ 975 (1000-1¼)	2920-1½ 975 (1000-1½)	2920-3 975 (1000-3)	
CIRCLING	2920-1¼ 967 (1000-1¼)	2920-1½ 967 (1000-1½)	2920-3 967 (1000-3)	



Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56





LOC I-FRC 110.3	APCH CRS 048°	Rwy Idg 13,899 TDZE 2461 Arprt Elev 2461	JAL-553 [USAF]	FAIRCHILD AFB (KSKA)
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T * When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
When TDZL/CL lights inop, increase CAT CD RVR to 24.
** When ALS inop, increase vis to 1 mile, RVR to 50.



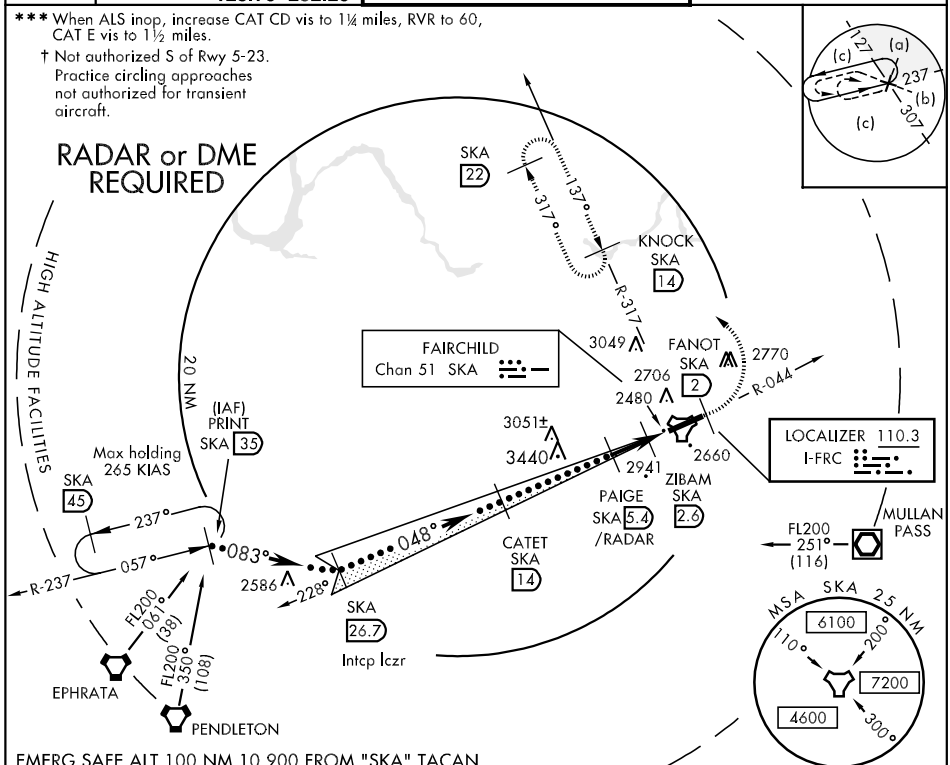
MISSED APPROACH: Climb to 6000 on SKA TACAN R-044. At SKA 2 DME turn left hdg 302° to intcp SKA R-317 to KNOCK and hold. cont climb in hold to 6000.

ATIS 257.625	SPOKANE APP CON 026°-204° 205°-025°	133.35 263.0 123.75 282.25	FAIRCHILD TOWER 120.35 233.7	GND CON 123.6 275.8
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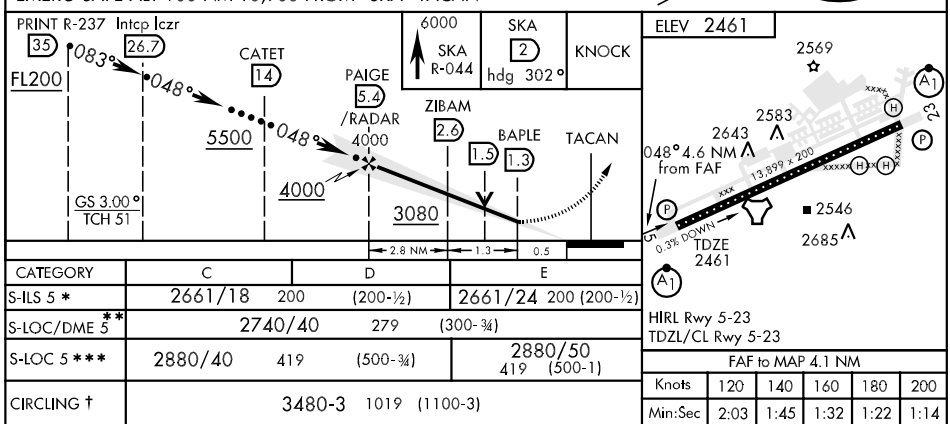
*** When ALS inop, increase CAT CD vis to 1¼ miles, RVR to 60, CAT E vis to 1½ miles.

† Not authorized S of Rwy 5-23.

Practice circling approach not authorized for transient aircraft.

RADAR or DME
REQUIRED /

EMERG SAFE ALT 100 NM 10.900 FROM "SKA" TACAN



LOC I-SKA 110.3	APCH CRS 228°	Rwy Idg 13,899 TDZE 2422 Arpt Elev 2461
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JAL-553 [USAF]

FAIRCHILD AFB (KSKA)

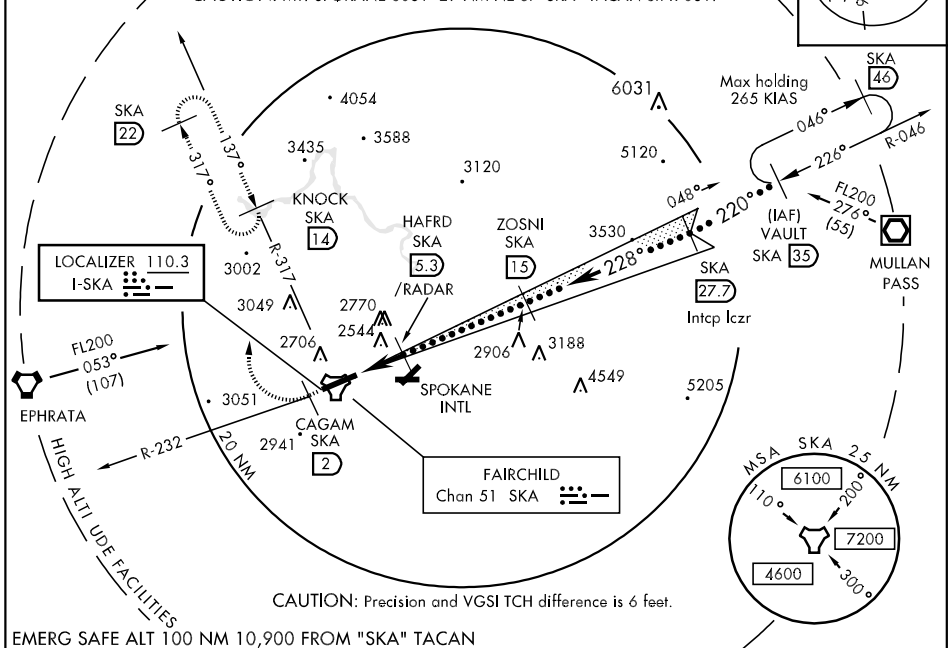
<p>▼ * When ALS inop, increase vis to ¾ mile, RVR to 40. When TDZ/CL lights inop, increase CAT CD RVR to 24. ** When ALS inop, increase vis to 1 mile, RVR to 50.</p>	<p>ALSF-1</p>	<p>MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intercept SKA R-317 to KNOCK and hold, continue climb in hold to 6500.</p>
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<p>ATIS 257.625</p>	<p>SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25</p>	<p>FAIRCHILD TOWER 120.35 233.7</p>	<p>GND CON 123.6 275.8</p>
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*** Not authorized S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft.

RADAR or DME REQUIRED

CAUTION: MT. SPOKANE 6031' 29 NM NE of "SKA" TACAN on R-031.



TACAN SKA Chan 51	APCH CRS 057°	Rwy Idg 13,899 TDZE 2461 Arpt Elev 2461
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JAL-553 [USAF]

FAIRCHILD AFB (KSKA)

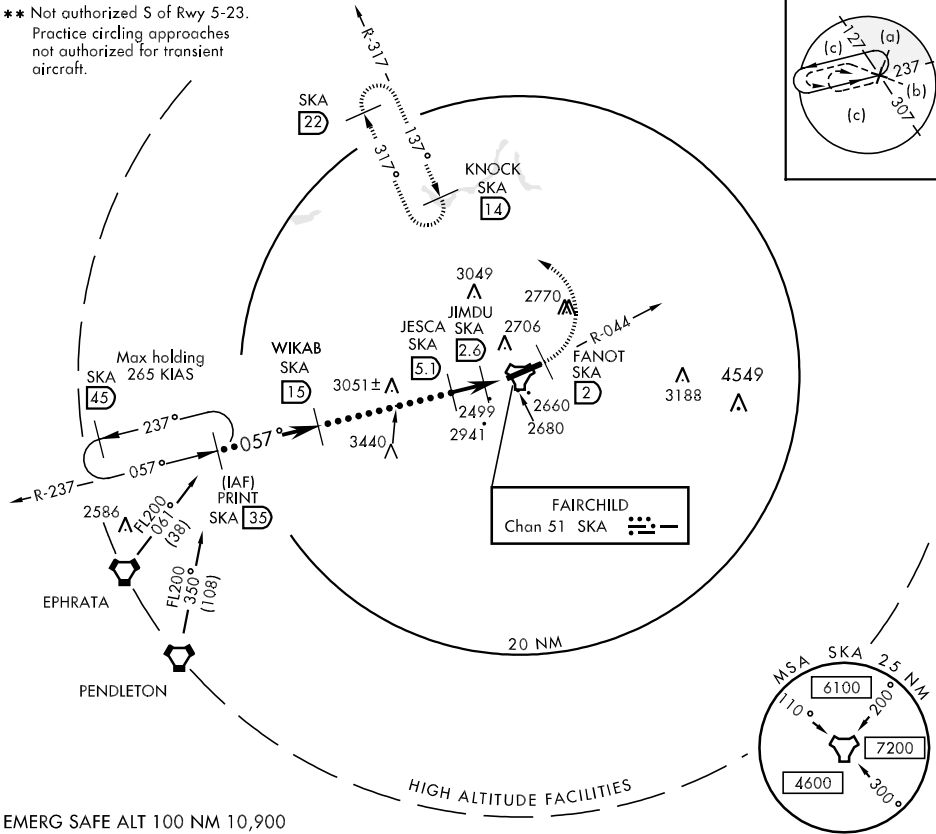
T * When ALS inop, increase CAT C vis to 1 mile, RVR to 50, CAT DE vis to 1¼ miles, RVR to 60.

ALSF-1

MISSED APPROACH: Climb to 6000 on SKA TACAN R-044. At SKA 2 DME turn left hdg 302° to intcp SKA R-317 to KNOCK and hold, cont climb in hold to 6000.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25	FAIRCHILD TOWER 120.35 233.7	GND CON 123.6 275.8
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**** Not authorized S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft.**



PRINT R-237

CAUTION: VGSI and descent angle not coincident

6000 SKA R-044 SKA 2 KNOCK

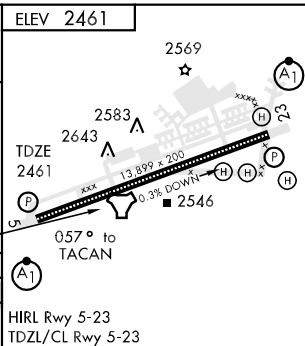
FL200 057° WIKAB 1.5 JESCA 5.1 JIMDU 2.6 WUNON 1.8 1.3 TACAN

5500 4200 3220

3.72° TCH 51

2.5 NM 1.3 0.5

CATEGORY	C	D	E
S-5 *	2820/40	359	(400-¾)
CIRCLING **	3480-3 1019 (1100-3)		



TACAN SKA Chan 51	APCH CRS 226°	Rwy ldg 13,899 TDZE 2422 Arprt Elev 2461
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JAL-553 [USAF]

FAIRCHILD AFB (KSKA)

▼ * When ALS inop, increase CAT CD vis to 1½ miles,
RVR to 60, CAT E vis to 1½ miles.
** Not authorized S of Rwy 5-23. Practice circling
approaches not authorized for transient aircraft.

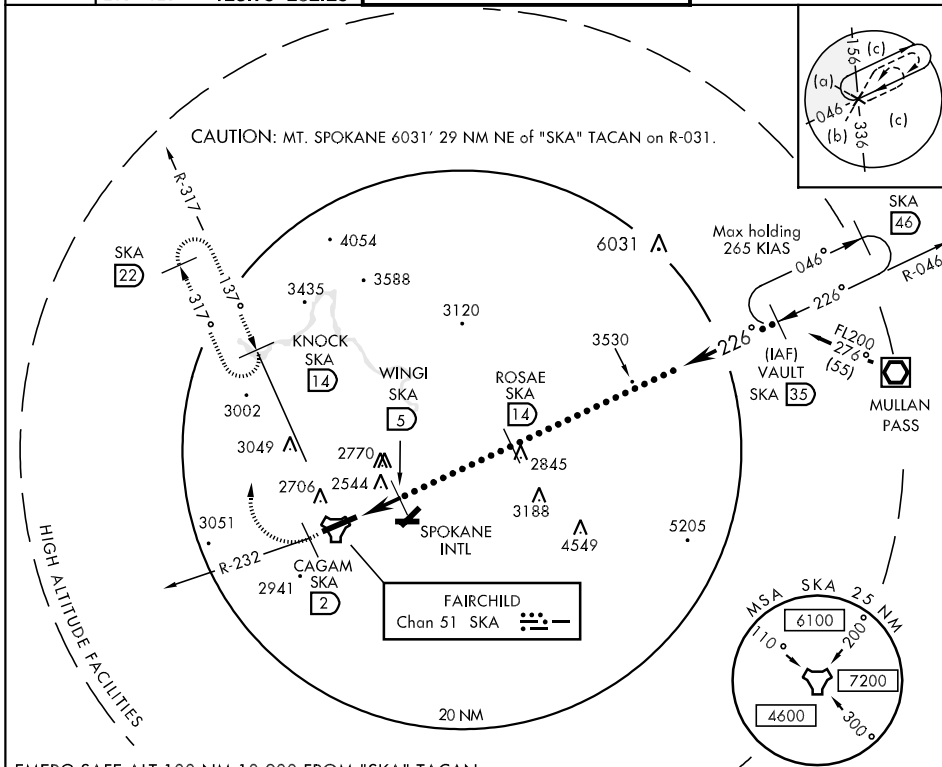
ALS-F-1



MISSED APPROACH: Climb to 6500 via SKA R-232. At
SKA 2 DME, turn right heading 340° to intercept SKA R-317
to KNOCK and hold, continue climb in hold to 6500.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25	FAIRCHILD TOWER 120.35 233.7	GND CON 123.6 275.8
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CAUTION: MT. SPOKANE 6031' 29 NM NE of "SKA" TACAN on R-031.



EMERG SAFE ALT 100 NM 10,900 FROM "SKA" TACAN

6500 SKA R-232	CAGAM SKA 2	CAUTION: VGSI and descent angles not coincident.	VAULT R-046 35	ELEV 2461
hdg 340°	WINGI 5	ROSAB 14	FL200	TDZE 2586 2422
TACAN	ITODE 2 2.9	3500	6100	2583 A 2643 A 13,899 x 200 2546
0.5	3.0 NM	2.78° TCH 50		226° to TACAN
CATEGORY	C	D	E	
S-TAC 23 *	2840/40	418 (400-34)	2840/50 418 (400-1)	HIRL Rwy 5-23 TDZL/CL Rwy 5-23
CIRCLING **	3480-3	1019 (1100-3)		

SPOKANE, WASHINGTON

47°37'N-117°39'W

FAIRCHILD AFB (KSKA)

SPOKANE APP CON

133.35 263.0

SPOKANE INIT ATIS

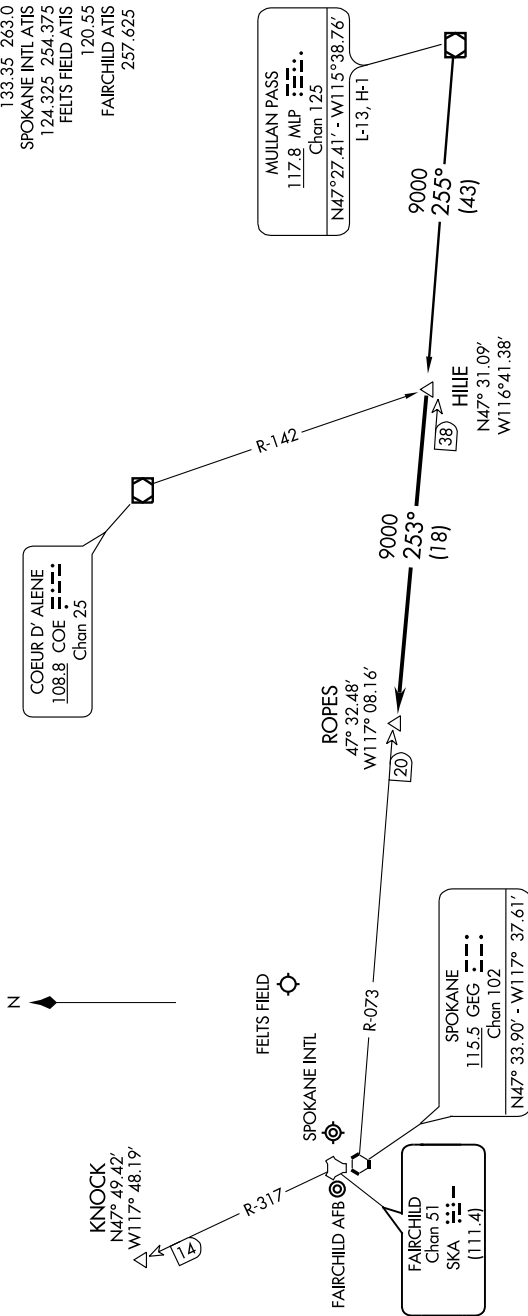
124.325 254.375

FELTS FIELD ATIS

120.55

FAIRCHILD ATIS

257.625



MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

NOTE: DME and RADAR required.

NOTE: Chart not to scale.

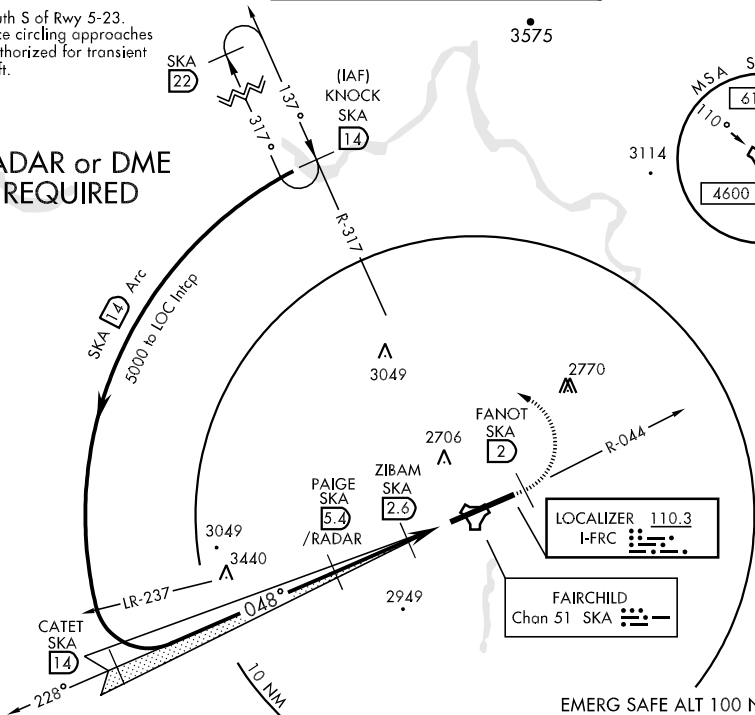
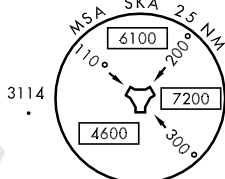
AL-553 [USAF]

ALSF-1

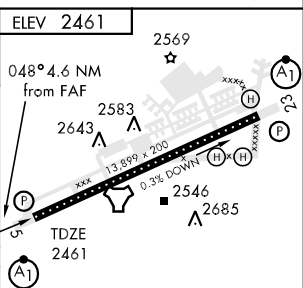
MISSED APPROACH: Climb to 6000 on SKA TACAN R-044. At SKA 2 DME turn left hdg 302° to intcp SKA R-317 to KNOCK and hold, cont climb in hold to 6000.

GND CON
123 6 275 8

† Not auth S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft



EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-ILS 5 *	2661/18		200 (200-½)		2661/24 200 (200-½)
S-LOC/ DME 5 **	2740/24	279 (300-½)	2740/40	279 (300-¾)	
S-LOC 5 ***	2880/24	419 (500-½)	2880/40	419 (500-¾)	2880/50 419 (500-1)
CIRCLING †	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

LOC I-SKA
110.3

PCH CRS
228 °

Rwy Idg	13,899
TDZE	2422
Arpt Elev	2461

AL-553 [USAF]

FAIRCHILD AFB (KSKA)

T * When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
When TDZL/CL lights inop, increase CAT ABCD RVR to 24.
** When ALS inop, increase vis to 1 mile, RVR to 50.

ALSF-1

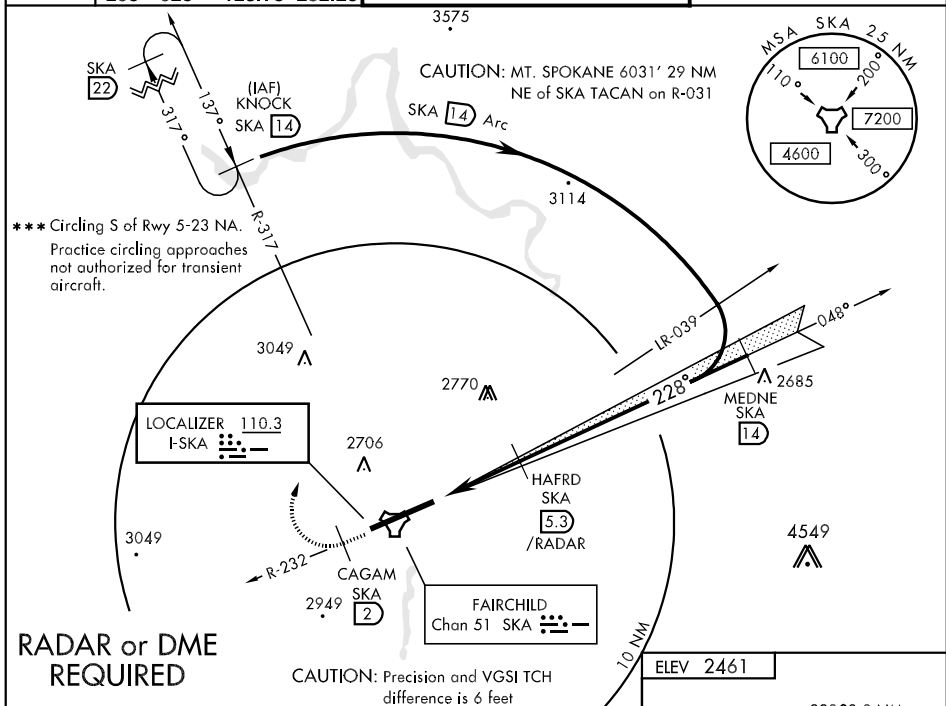
MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

ATIS
257.625

SPOKANE APP CON			
026°-204°	133.35	263.0	
205°-025°	123.75	282.25	

FAIRCHILD TOWER
120.35 233.7

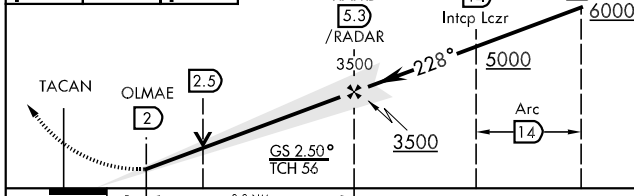
GND CON
123.6 275.8



RADAR or DME
REQUIRED

EMERG SAFE ALT 100 NM 10,900

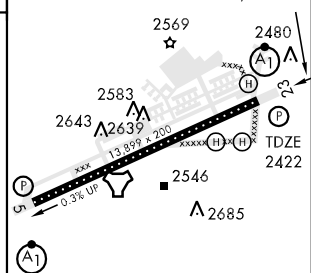
6500 SKA R-232	CAGAM SKA 2	hdg 340°
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CATEGORY	A	B	C	D	E
S-ILS 23 *	2622/18 200 (200-½)				2622/24 200(200-½)
S-LOC 23 **	2720/24 298 (300-½)		2720/40 298 (300-¾)		
CIRCLING ***	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

ELEV 2461

228°3.8 NM
from 5.3 DME/RADAR



HIRL Rwy 5-23
TDZL/CL Rwy 5-23

FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

SPOKANE, WASHINGTON
Orig 09295

47°37'N-117°39'W

FAIRCHILD AFB (KSKA)

U.S. or LOC PW/M 23

TACAN SKA Chan 51	APCH CRS 057°	Rwy Ldg 13,899 TDZE 2461 Arpt Elev 2461
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AL-553 [USAF]

FAIRCHILD AFB (KSKA)

▼ * When ALS inop, CAT ABC vis to 1 mile, RVR to 50, CAT DE vis to 1¼ miles, RVR to 60.



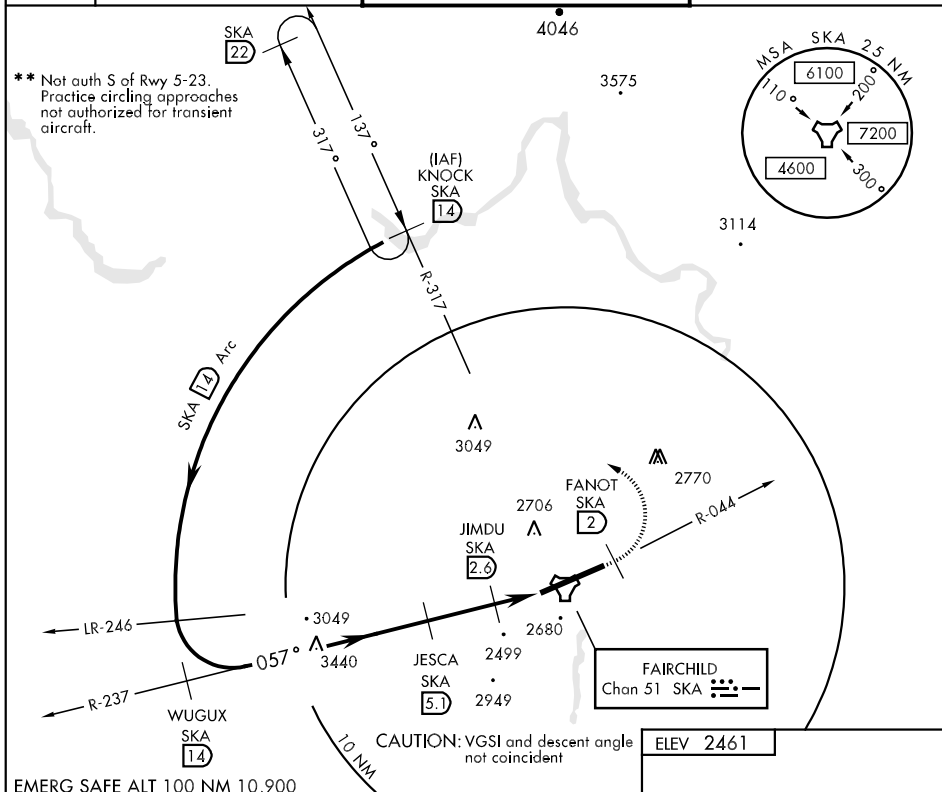
MISSED APPROACH: Climb to 6000 on SKA TACAN R-044. At SKA 2 DME turn left hdg 302° to intcp SKA R-317 to KNOCK and hold, cont climb in hold to 6000.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25
------------------------	--

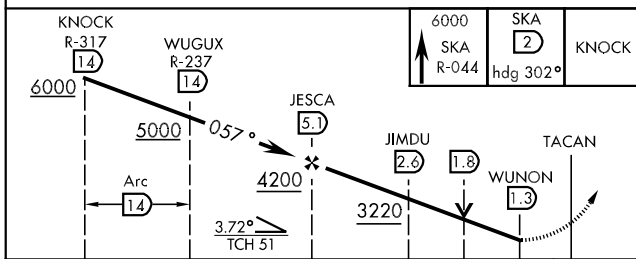
FAIRCHILD TOWER
120.35 233.7

GND CON
123.6 275.8

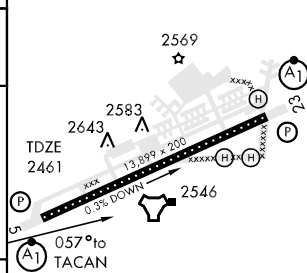
** Not auth S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft.



EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-5 *	2820/24	359 (400-½)	2820/40	359 (400-¾)	
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3	1019 (1100-3)	



HIRL Rwy 5-23
TDZL/CL Rwy 5-23

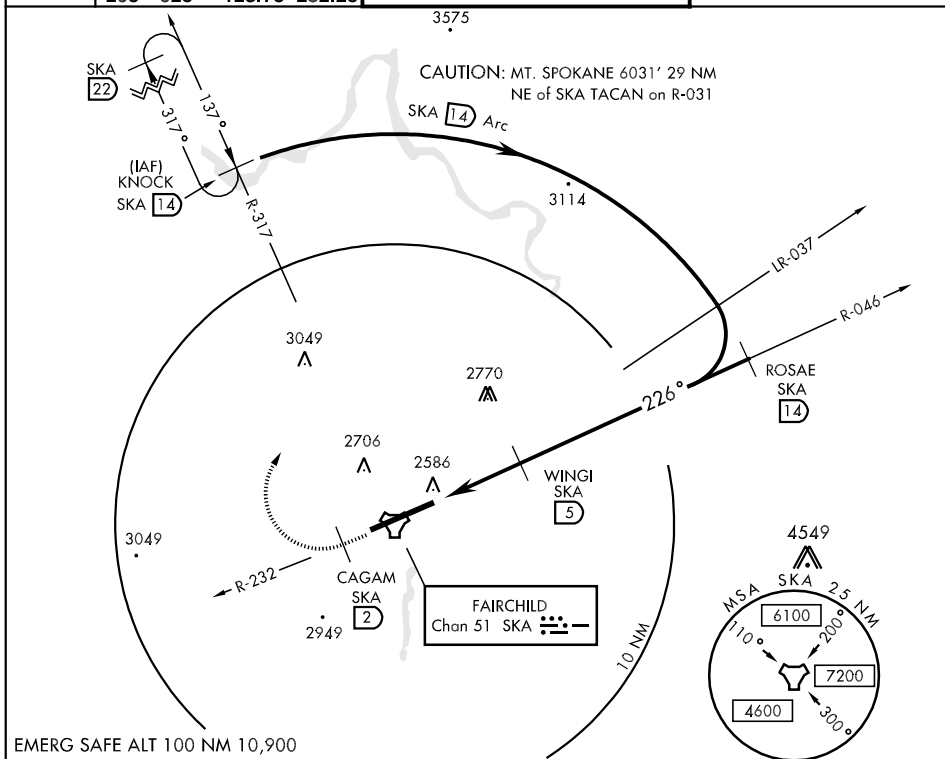
TACAN SKA Chan 51	APCH CRS 226°	Rwy Idg 13,899 TDZE 2422 Arpt Elev 2461
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AL-553 [USAF]

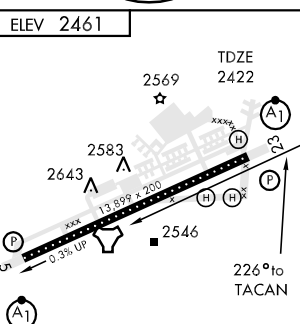
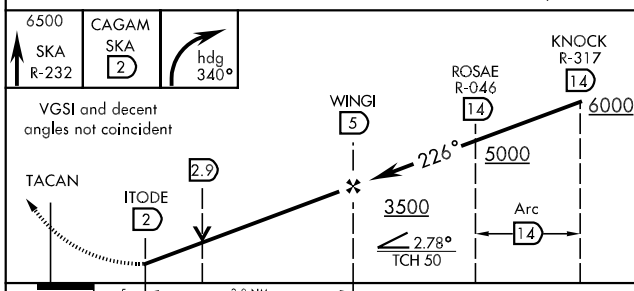
FAIRCHILD AFB (KSKA)

<p>▼ * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT CD vis to 1½ mile, RVR to 60, CAT E vis to 1½ miles.</p> <p>** Not auth S of Rwy 5-23. Practice circling approaches not authorized for transient aircraft.</p>	<p>ALS-1</p>	<p>MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intercept SKA R-317 to KNOCK and hold, continue climb in hold to 6500.</p>
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<p>ATIS 257.625</p> <p>SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25</p>	<p>FAIRCHILD TOWER 120.35 233.7</p>	<p>GND CON 123.6 275.8</p>
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EMERG SAFE ALT 100 NM 10,900

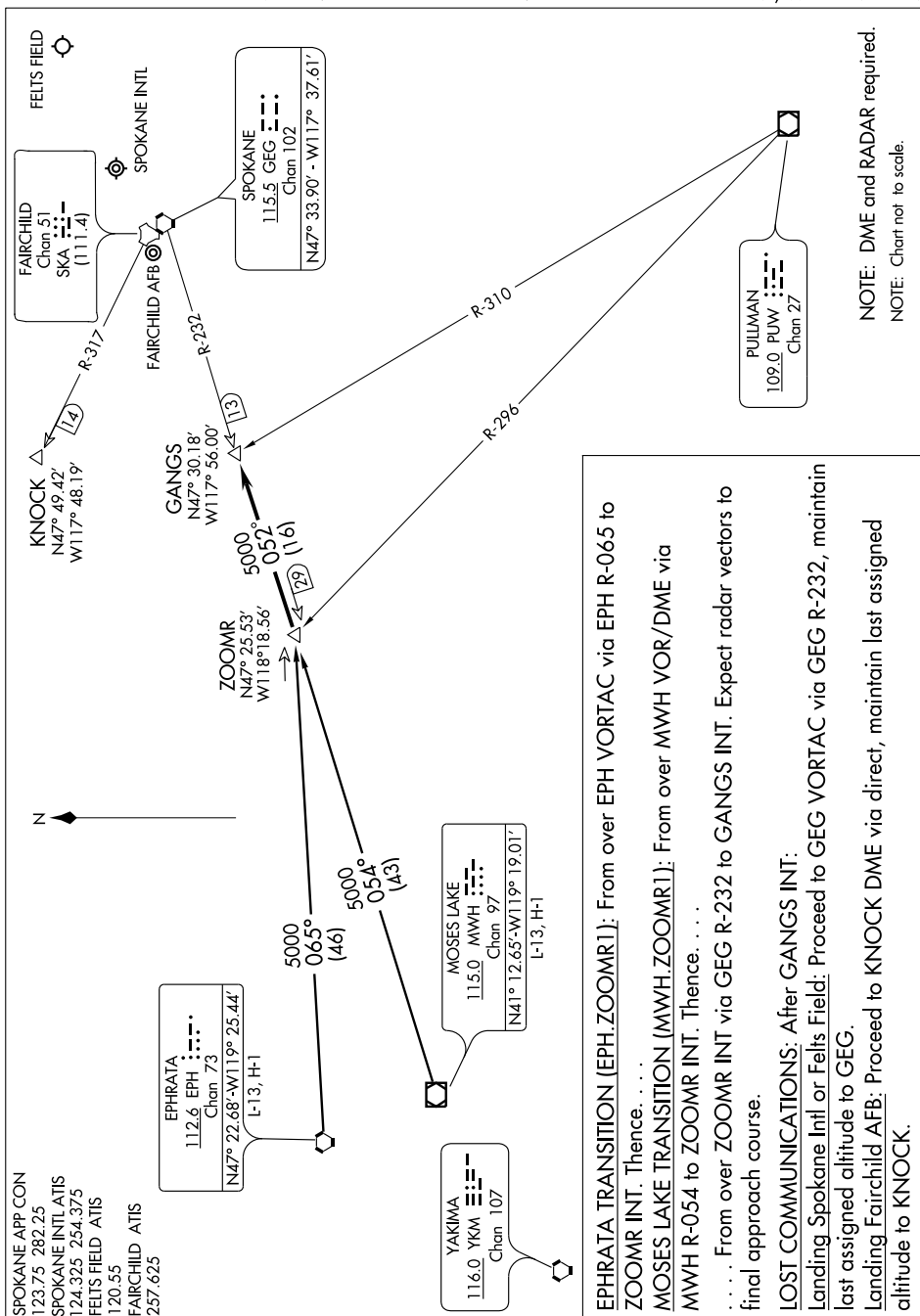


CATEGORY	A	B	C	D	E
S-TAC 23 *	2840/24 418 (400-½)	2840/40 418 (400-¾)	2840/50 418 (400-1)		
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

HIRL Rwy 5-23
TDZL/CL Rwy 5-23

ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON



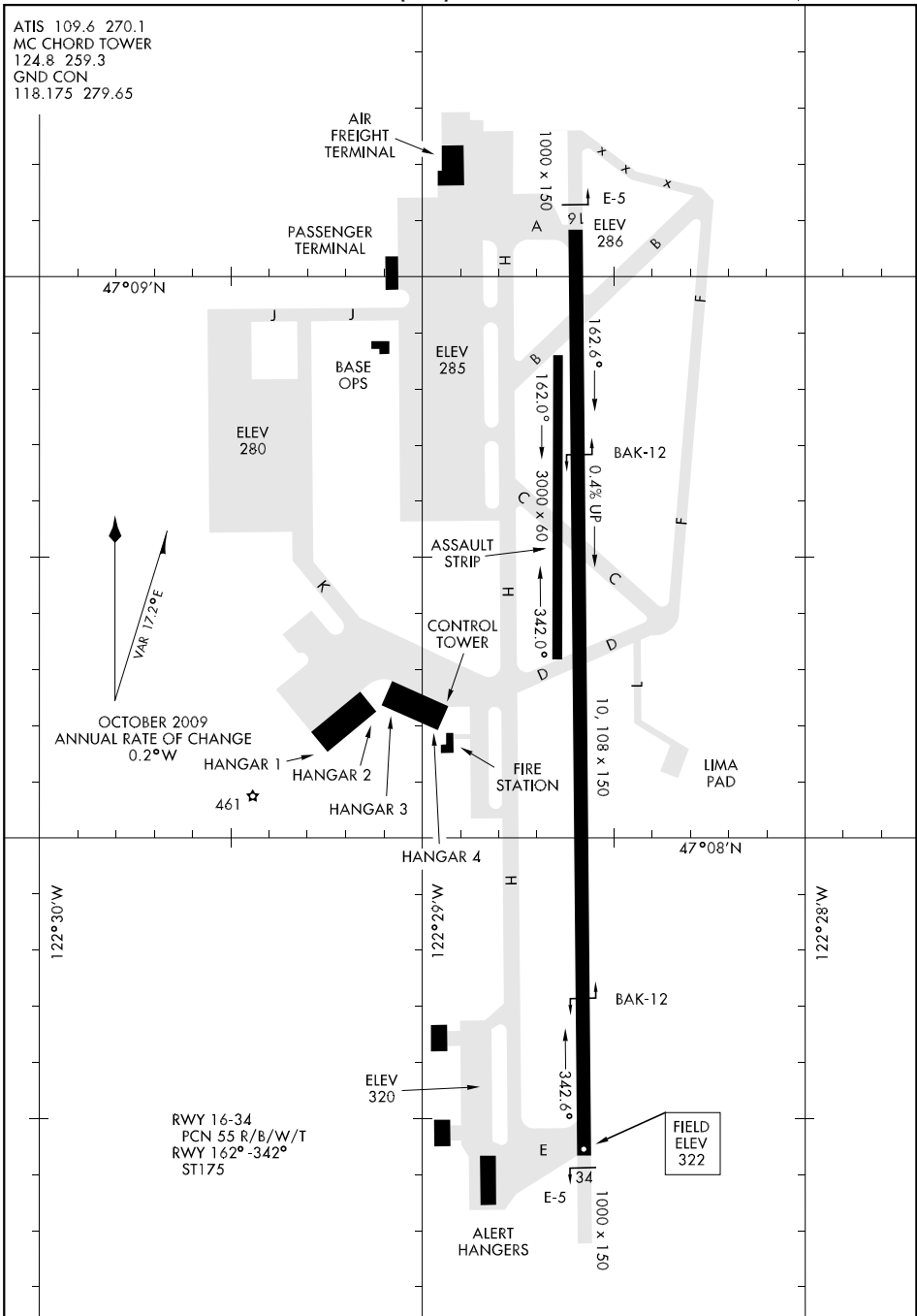
AIRPORT DIAGRAM

[USAF] AFD-414

TACOMA, WASHINGTON

ATIS 109.6 270.1
MC CHORD TOWER
124.8 259.3
GND CON
118.175 279.65

NW-1, 22 OCT 2009 to 19 NOV 2009



AIRPORT DIAGRAM

TACOMA, WASHINGTON

ALDER-NINE DEPARTURE (ALDER9 • ALDER)

MC CHORD VORTAC (R-151)
TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 391.9

SL-414 [USAF]

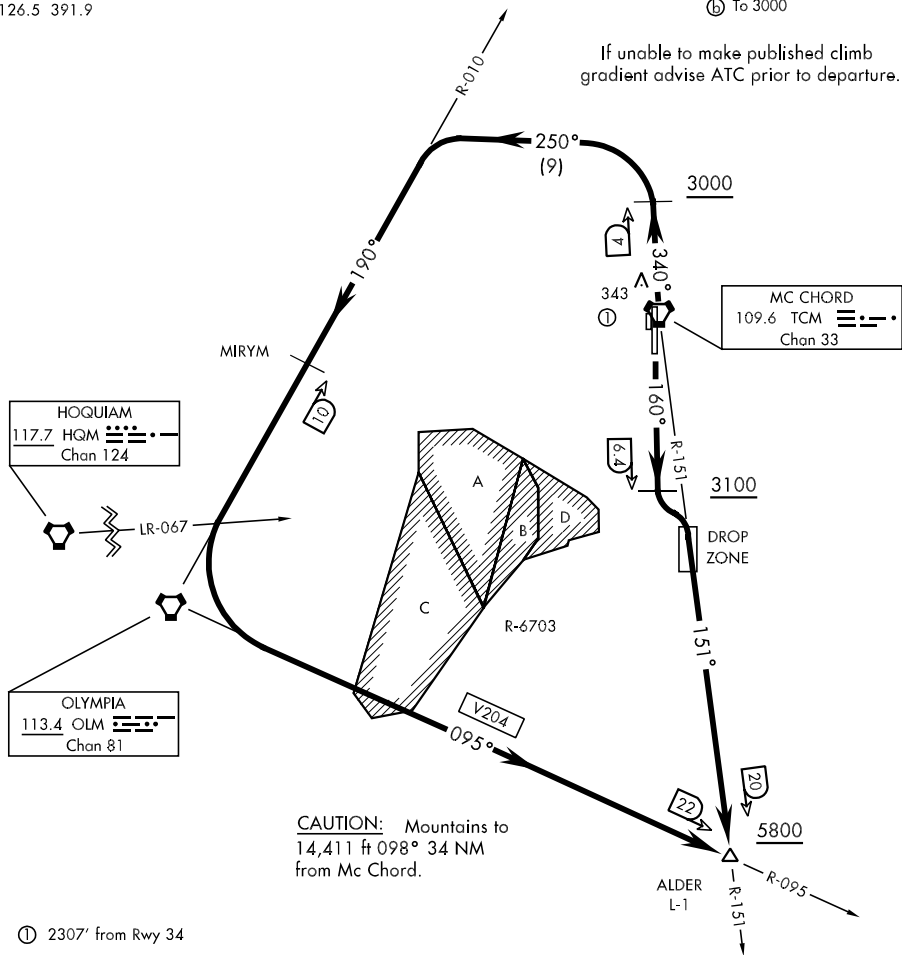
Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		560	1120	1680	2240
34 (B) V/V(fpm)		730	1450	2180	2890

ATC Climb Rate

(A) To 3100

(B) To 3000

If unable to make published climb gradient advise ATC prior to departure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Track heading 160° to TCM VORTAC 6.4 DME, then turn left to intercept the TCM R-151 to ALDER. Cross TCM 6.4 DME at or above 3100, cross ALDER at or above 5800.

TAKE-OFF RWY 34: Climb on track 340° to TCM VORTAC 4 DME. Cross TCM 4 DME at or above 3000, then turn left heading 250° to intercept OLM VORTAC R-010/10 DME (MIRYM) to OLM VORTAC. Then via V204 (OLM R-095) to ALDER. Cross ALDER at or above 5800.

ALDER-NINE DEPARTURE (ALDER9 • ALDER)

TACOMA, WASHINGTON

NW-1, 22 OCT 2009 to 19 NOV 2009

ARRIE FIVE ARRIVAL

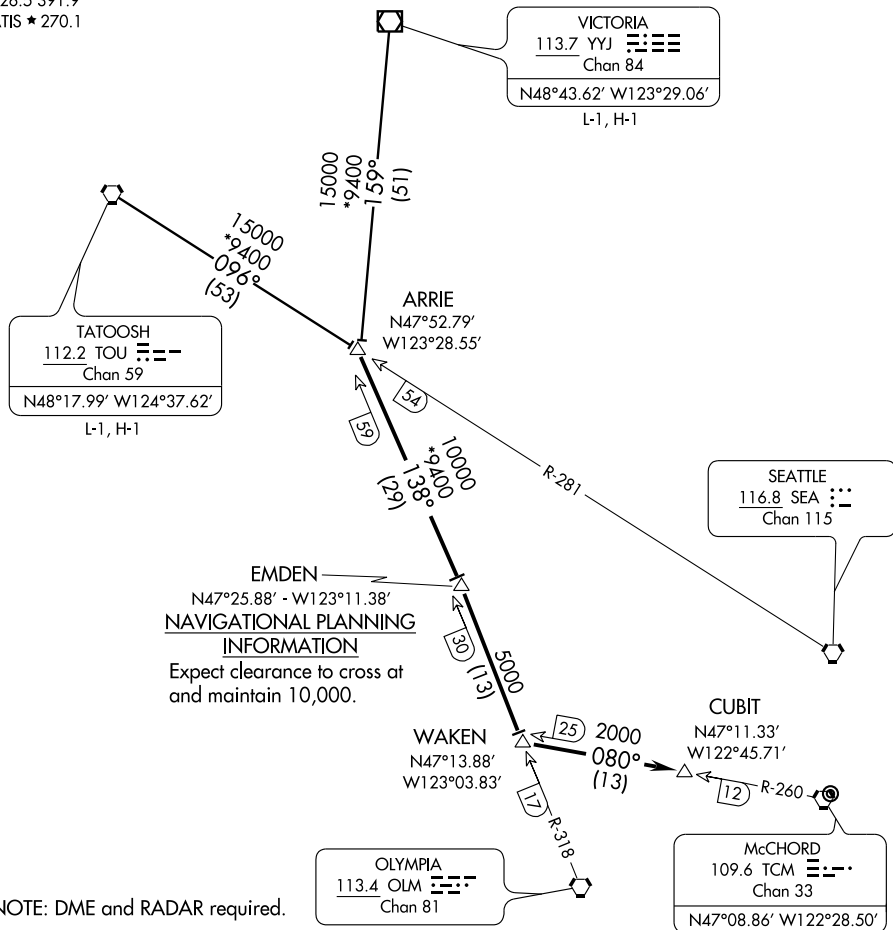
ST-414 (FAA)

McCHORD AFB
TACOMA, WASHINGTON

SEATTLE APP CON

126.5 391.9

ATIS ★ 270.1



TATOOSH TRANSITION (TOU.ARRIE5): From over TOU VORTAC via TOU R-096 to ARRIE DME Fix. Thence. . .

VICTORIA TRANSITION (YYJ.ARRIE5): From over YYJ VOR/DME via YYJ R-159 to ARRIE DME Fix. Thence. . .

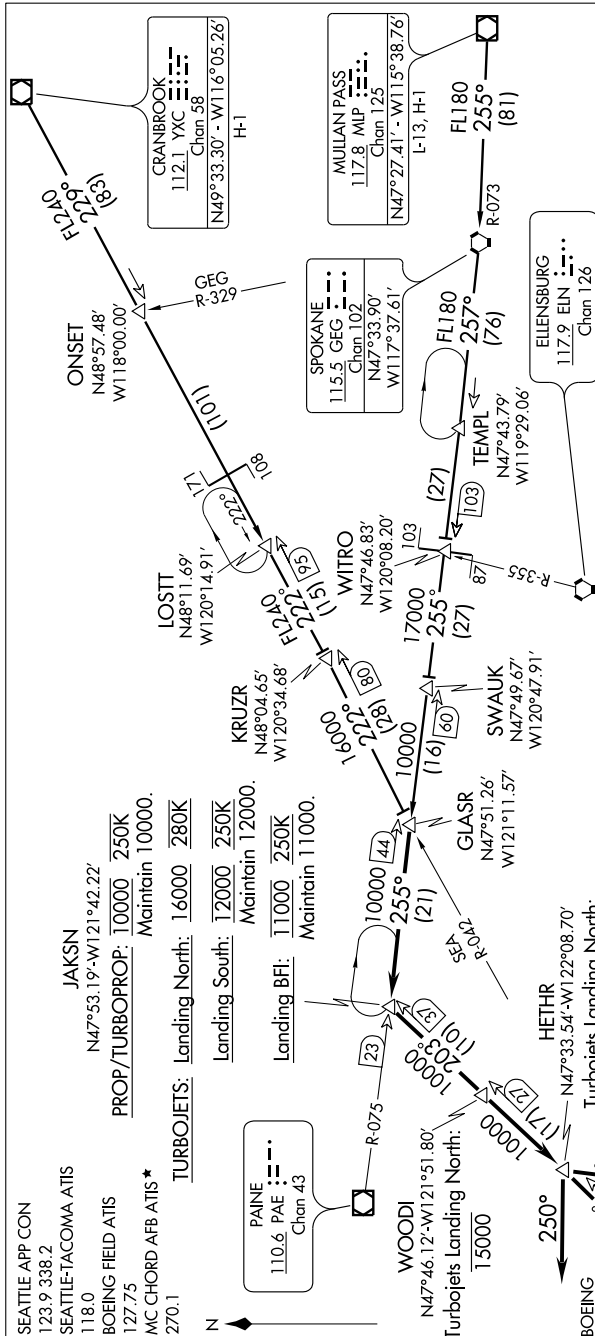
. . . From over ARRIE DME Fix via OLM R-318 and TCM R-260 to CUBIT INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: Proceed direct to TCM VORTAC.

GLASR SEVEN ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON



CRANBROOK TRANSITION (YXC.GLASR7): From over YXC VOR/DME via YXC R-229 and SEA R-042 to GLASR INT. Thence....

MULLAN PASS TRANSITION (MLP.GLASR7): From over MLP VOR/DME via MLP R-255 and GEG R-073 to GEG VORTAC, then via GEG R-257 and PAE R-075 to GLASR INT. Thence....

....from over GLASR/PAE 44 DME via PAE R-075 to JAKSN INT/PAE 23 DME, then via the SEA R-023 to WOODI/SEA 27 DME, then via SEA R-023 to HETHR/SEA 10 DME, Thence....
LANDING NORTH: Heading 160° for vectors to final approach course.
LANDING SOUTH: Heading 250° for vectors to final approach course.

LANDING McCHORD AFB: From over HETHR DME FIX, proceed direct SEA VORTAC.

LOST COMMUNICATIONS: From over HETHR DME FIX, proceed direct SEA VORTAC.

MC CHORD AFB (KTCM)

MISSED APPROACH: Climb to 4000 on TCM VORTAC R-160. At 3.5 DME turn right via 295° course to intercept TCM R-250 to STEIL and hold. Continue climb in hold to 4000.

*** Circling E of Rwy 16-34 not authorized.



ELEV 322

160°±3.6 NM from FAF

ASSAULT STRIP

TDZE 286

91

298

62° 09' 00.00'

342°

0.51 x 801.01

417.50

461

34

TDZL/CL Rwy 34

HIRL Rwy 16-34

FAF to MAP 3.1 NM					
Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

LOC I-TCM 108.5	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
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AL-414 [USAF]

MC CHORD AFB (KTCM)

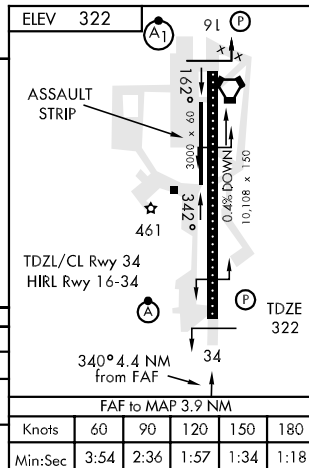
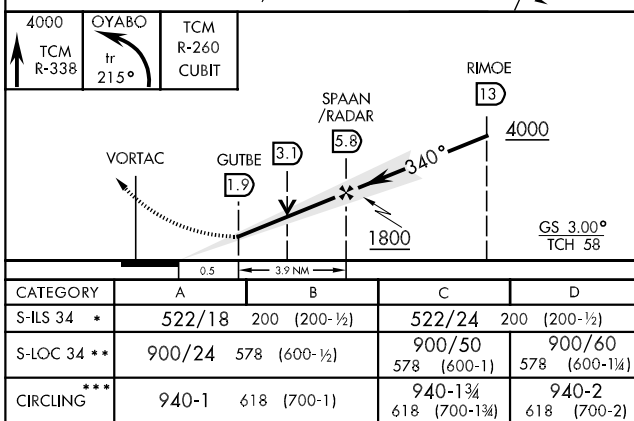
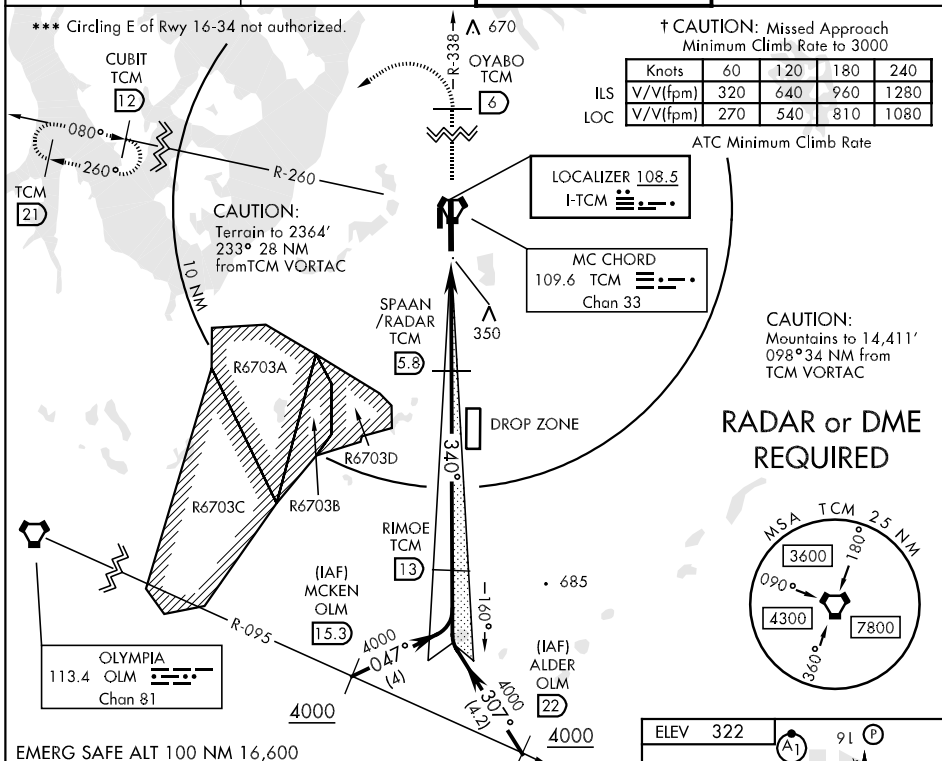
▼ * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB vis to 1 mile,
 RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to
 $1\frac{3}{4}$ miles.

ALSF-2



† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to OYABO, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold, continue climb in hold to 4000. Cross OYABO at or above 3000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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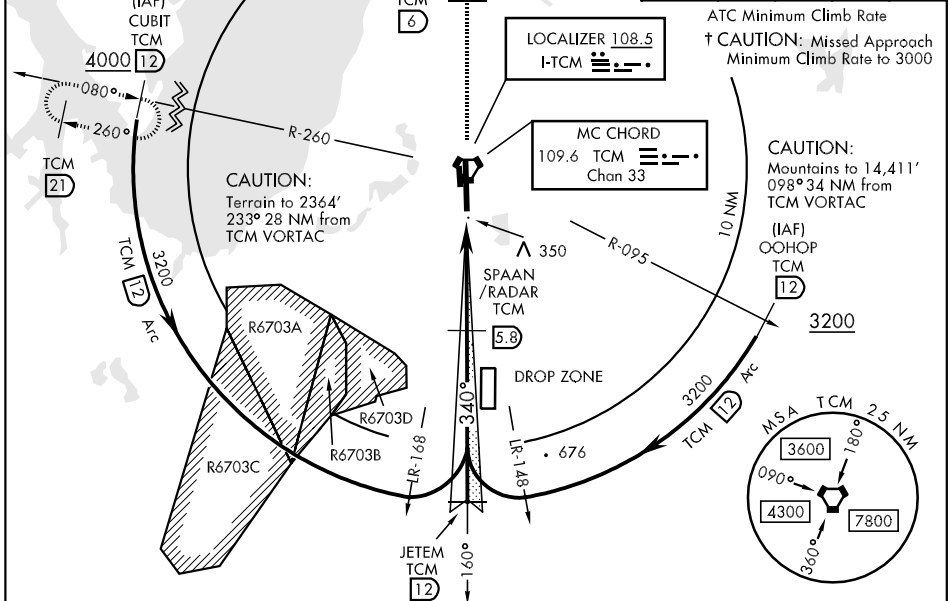


LOC I-TCM <u>108.5</u>	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322	AL-414 [USAF]	MC CHORD AFB (KTCM)
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<p>▲ * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.</p> <p>** When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to $1\frac{3}{4}$ miles.</p>	<p>ALS-2</p> 	<p>† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to QYABO, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold, continue climb in hold to 4000. Cross QYABO at or above 3000.</p>
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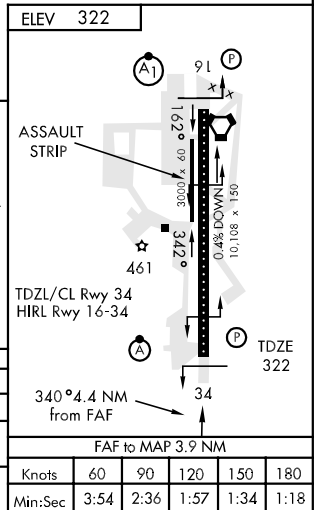
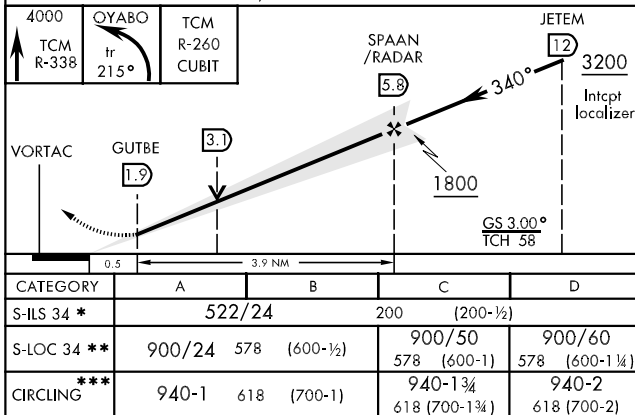
<p>ATIS</p> <p>109.6 270.1</p>	<p>SEATTLE APP CON</p> <p>126.5 391.9</p>	<p>MC CHORD TOWER</p> <p>124.8 259.3</p>	<p>GND CON</p> <p>118.175 279.65</p>
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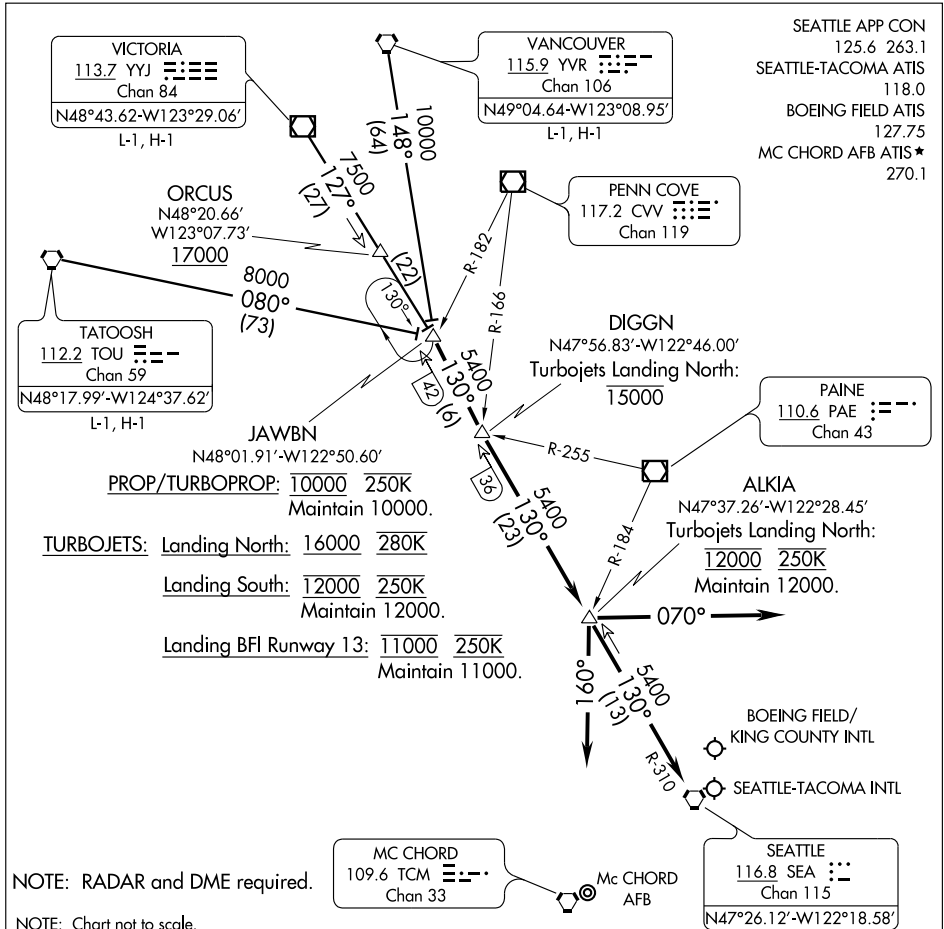
*** Circling E of Rwy 16-34 not authorized.		Knots	60	120	180	240
ILS	V/V(fpm)	320	640	960	1280	
LOC	V/V(fpm)	270	540	810	1080	



RADAR or DME
REQUIRED

EMERG SAFE ALT 100 NM 16,600





TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD AFB: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

OLYMPIC-THREE DEPARTURE

SL-414 [USAF]

TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 391.9

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		320	640	960	1280
34 (B) V/V(fpm)		650	1300	1950	2600

ATC Climb Rate

(A) To 10 DME

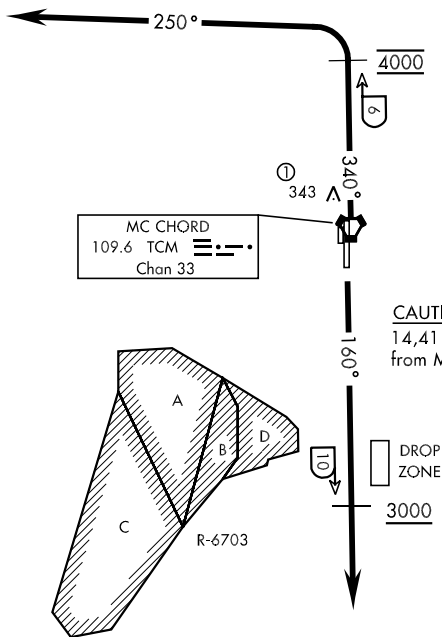
(B) To 6 DME

RADAR REQUIRED

Maximum 250 KIAS

SEATTLE
116.8 SEA
Chan 115

L-1



CAUTION: Mountains to
14,411 ft 098° 34 NM
from Mc Chord.

OLYMPIA
113.4 OLM
Chan 81
L-1

(1) 2270' from Rwy 34

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160°. Cross TCM VORTAC 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors within TCM 8 DME after departure.

TAKE-OFF RWY 34: Climb on a track of 340° to TCM VORTAC 6 DME. Cross TCM 6 DME at 4000. Then turn left tracking 250°. Maintain (assigned altitude). Expect radar vectors.

TACOMA, WASHINGTON

NW-1, 22 OCT 2009 to 19 NOV 2009

PUGET-FIVE DEPARTURE

SL-414 [USAF]

MC CHORD VORTAC (RTOM)
TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 391.9

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16	⊙ V/V(fpm)	320	640	960	1280

ATC Climb Rate

⊙ To 10 DME

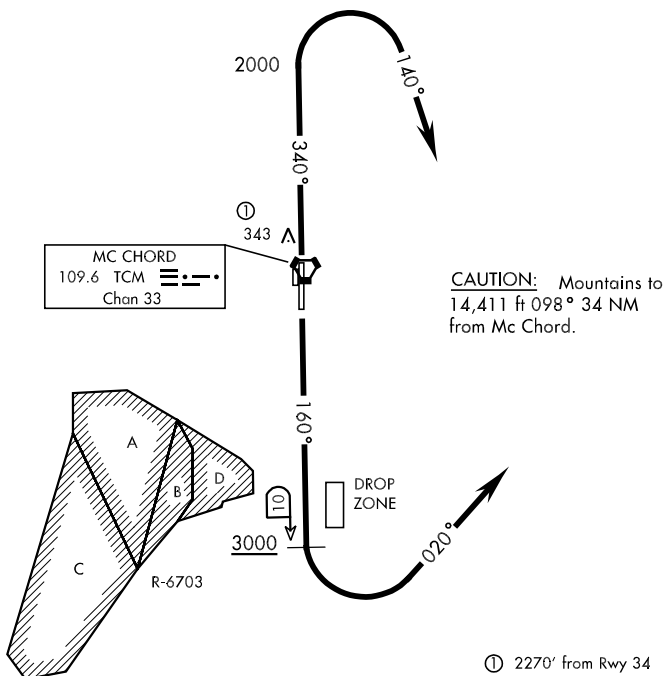
RADAR REQUIRED

Maximum 250 KIAS

Radar vectors required within 10 NM after departure

SEATTLE
116.8 SEA
Chan 115

L-1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160° to TCM VORTAC 10 DME, then turn left tracking 020°. Cross TCM 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors.

TAKE-OFF RWY 34: Climb on a track of 340° to 2000. Then turn right, tracking 140°. Maintain (assigned altitude). Expect radar vectors.

TACAN TCM Chan 33	APCH CRS 153°	Rwy Idg 10,108 TDZE 286 Arpt Elev 322
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AL-414 [USAF]

MC CHORD AFB (KTCM)

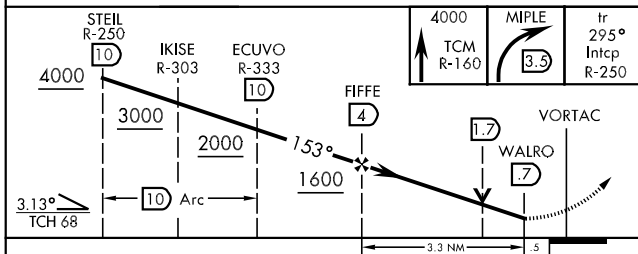
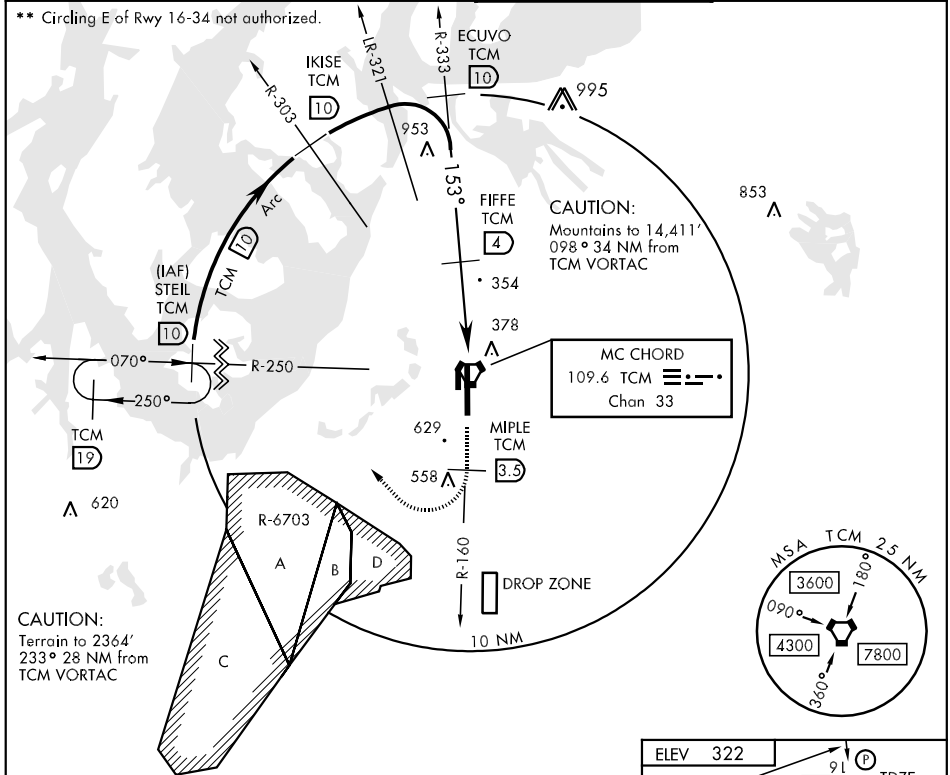
▼ * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.



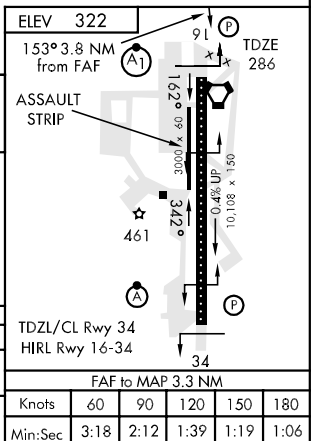
MISSED APPROACH: Climb to 4000 on TCM VORTAC R-160. At TCM 3.5 DME turn right via 295° course to intercept TCM R-250 to STEIL and hold, continue climb in hold to 4000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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** Circling E of Rwy 16-34 not authorized.



CATEGORY	A	B	C	D	E
S-16 *	800/40	514 (500-¾)	800/50 514 (500-1)	800/60	514 (500-1½)
CIRCLING **	940-1	618 (700-1)	940-1¾ 618(700-1¾)	940-2 618 (700-2)	940-2 ¼ 618(700-2 ¼)



TACAN TCM Chan 33	APCH CRS 338°	Rwy Idg 10,108 TDZE Arpt Elev 322
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AL-414 [USAF]

MC CHORD AFB (KTCM)

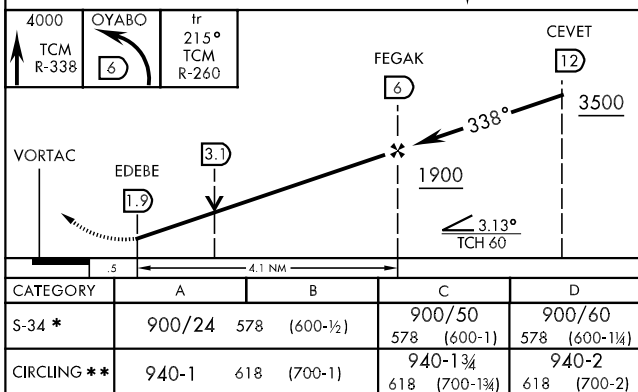
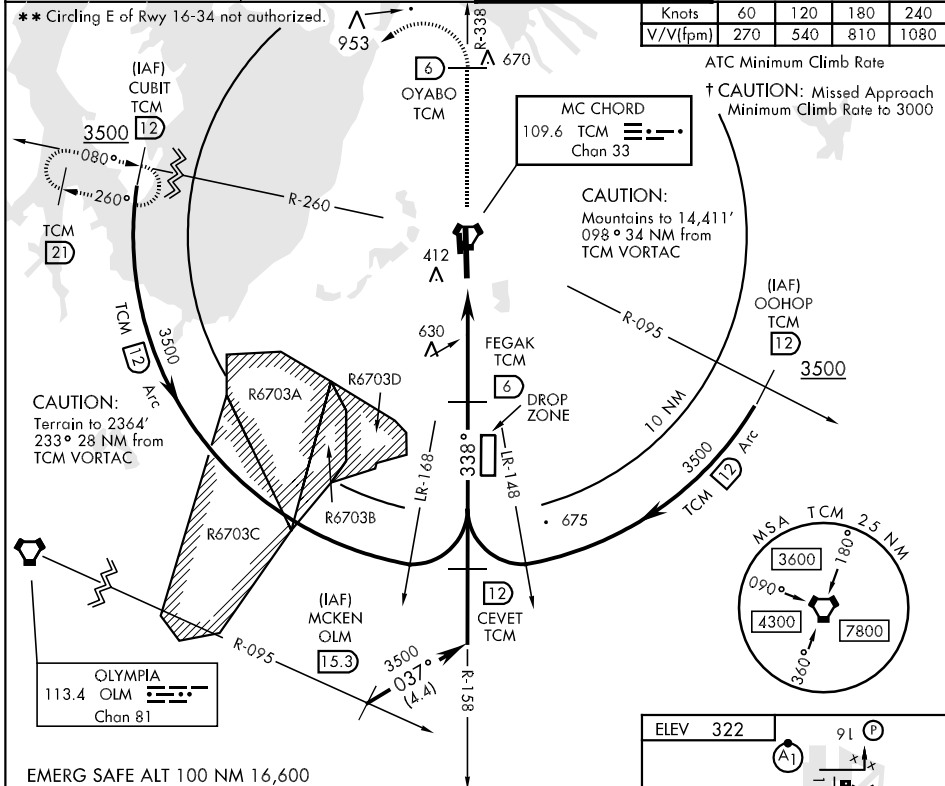
▼ * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to 1½ miles, CAT D vis to 1¾ miles.



† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to 6 DME. Cross TCM 6 DME at or above 3000, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold. Continue climb in hold to 4000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 391.9	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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** Circling E of Rwy 16-34 not authorized.



TACOMA, WASHINGTON

47°08'N-122°29'W

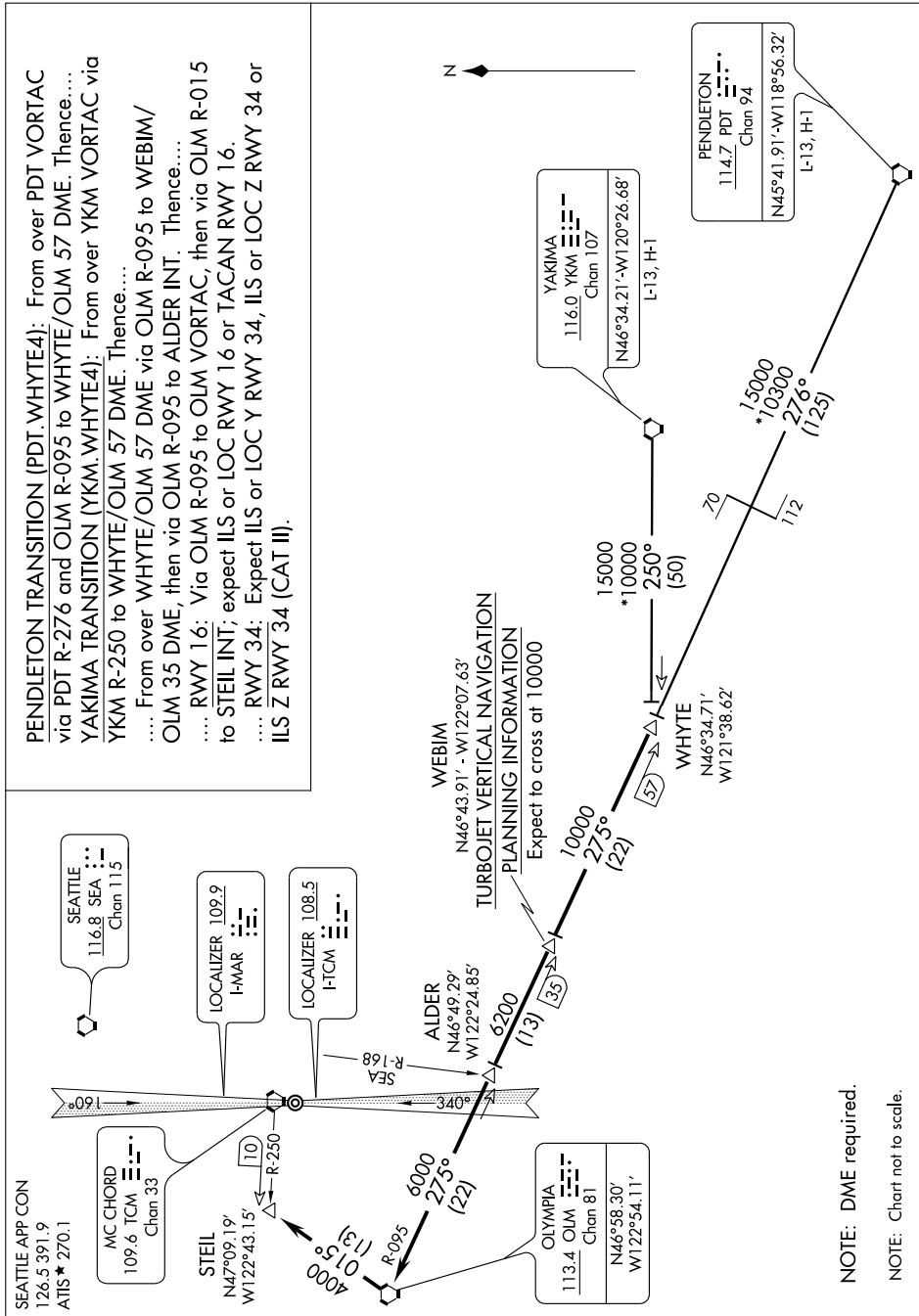
MC CHORD AFB (KTCM)

WHYTE FOUR ARRIVAL

ST-414 (FAA)

McCHORD AFB
TACOMA, WASHINGTON

PENDLETON TRANSITION (PDT.WHYTE4): From over PDT VORTAC via PDT R-276 and OLM R-095 to WHYTE/OLM 57 DME. Thence....
YAKIMA TRANSITION (YKM.WHYTE4): From over YKM VORTAC via YKM R-250 to WHYTE/OLM 57 DME. Thence....
 From over WHYTE/OLM 57 DME via OLM R-095 to WEBJIM/OLM 35 DME, then via OLM R-095 to ALDER INT. Thence....
 RWY 16: Via OLM R-095 to OLM VORTAC, then via OLM R-015 to STEIL INT; expect ILS or LOC RWY 16 or TACAN RWY 16.
 RWY 34: Expect ILS or LOC Y RWY 34, ILS or LOC Z RWY 34 or ILS Z RWY 34 (CAT III).

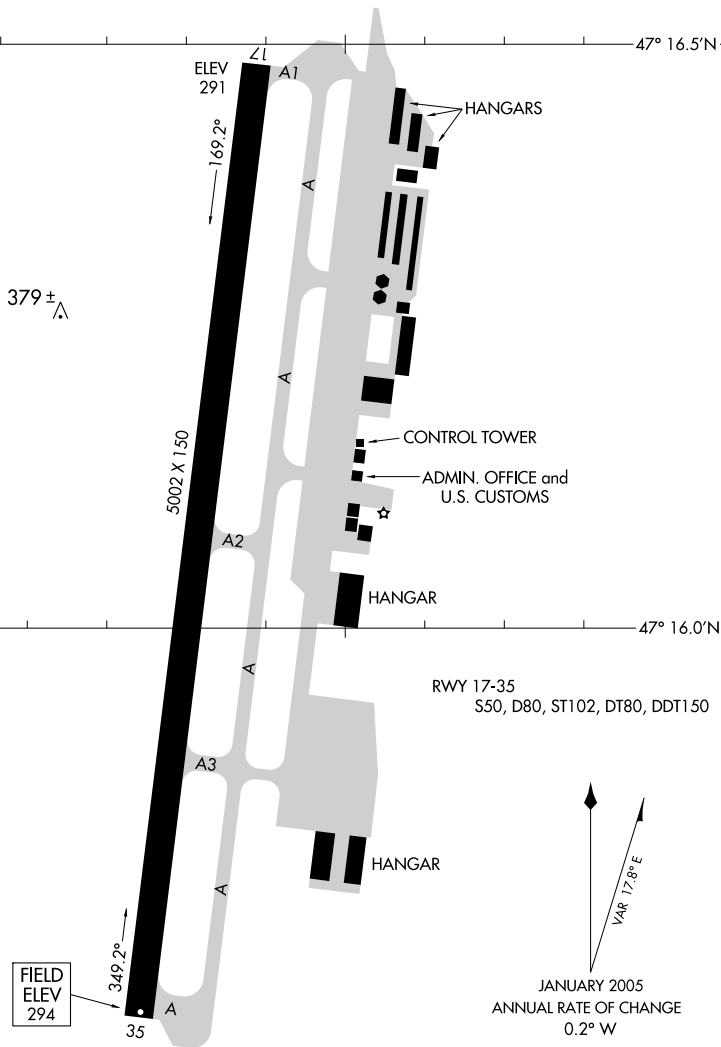


AIRPORT DIAGRAM

AL-5186 (FAA)

TACOMA NARROWS (TIW)
TACOMA, WASHINGTON

ATIS 124.05
TACOMA TOWER★
118.5 253.5
GND CON
121.8



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

122° 35'W

122° 34'W

NW-1, 22 OCT 2009 to 19 NOV 2009

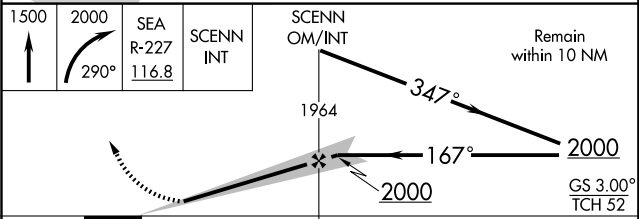
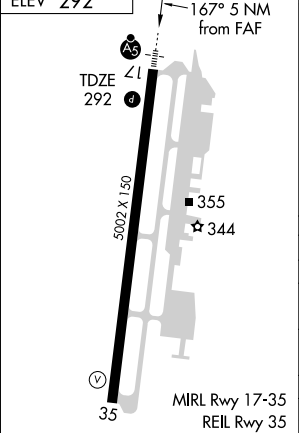
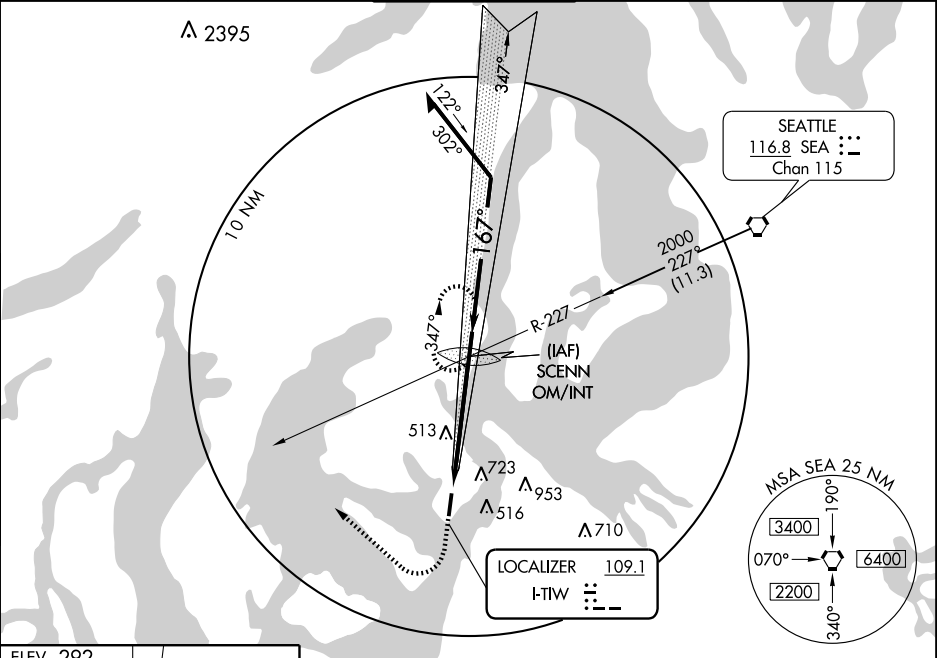
LOC I-TIW	APP CRS	Rwy Idg	5002
109.1	167°	TDZE	292
		Apt Elev	292

ILS RWY 17
TACOMA NARROWS (TIW)

When control tower closed, obtain local altimeter setting on UNICOM, when not received, use McChord AFB altimeter setting minimums. Circling not authorized East of Rwy 17-35.

MALSR MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 via heading 290° and SEA VORTAC R-227 to SCENN INT and hold.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 253.5	GND CON 121.8	UNICOM 122.95
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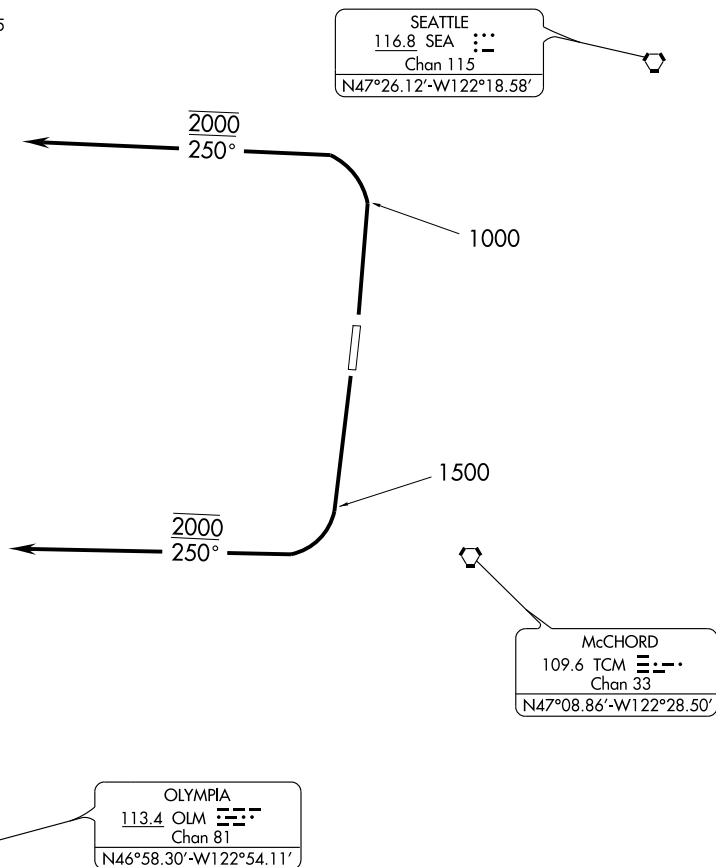
CATEGORY	A	B	C	D
S-ILS 17	492-½ 200 (200-½)			
S-LOC 17	760-½ 468 (500-½)	760-¾ 468 (500-¾)	760-1 468 (500-1)	760-1 468 (500-1)
CIRCLING	760-1 468 (500-1)	760-1½ 468 (500-1½)	860-2 568 (600-2)	860-2 568 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-ILS 17	517-½ 225 (300-½)			
S-LOC 17	780-½ 488 (500-½)	780-¾ 488 (500-¾)	780-1 488 (500-1)	780-1 488 (500-1)
CIRCLING	780-1 488 (500-1)	780-1½ 488 (500-1½)	860-2 568 (600-2)	860-2 568 (600-2)

NARROWS ONE DEPARTURE

SL-5186 (FAA)

TACOMA NARROWS (TIW)
TACOMA, WASHINGTON

ATIS 124.05
GND CON 121.8
TACOMA TOWER
118.5 (CTAF) 253.5
SEATTLE DEP CON
120.1 290.9



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb runway heading until leaving 1500, turn right heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route

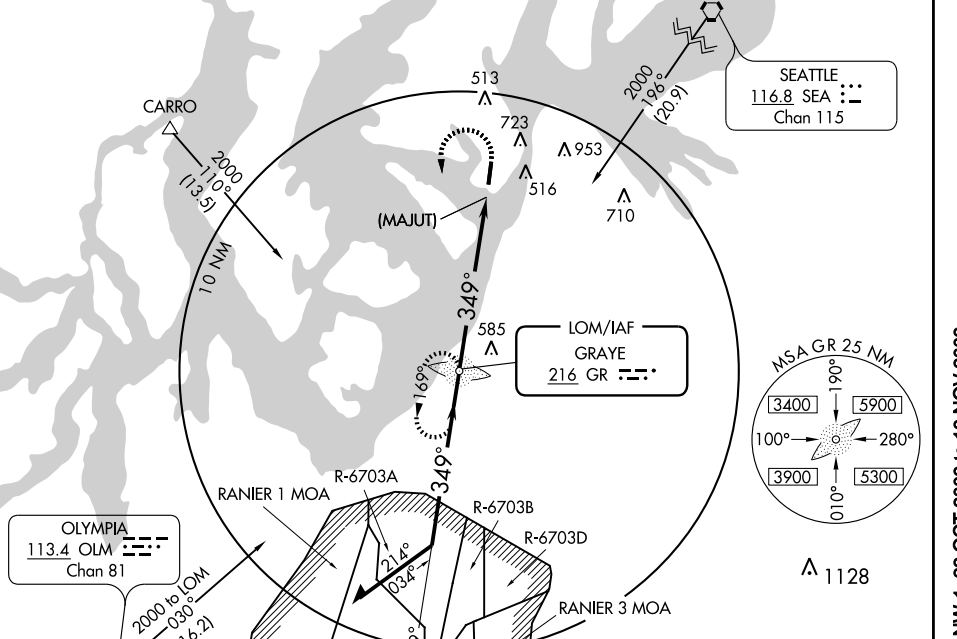
TAKE-OFF RUNWAY 35: Climb runway heading until leaving 1000, turn left heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route.

LOST COMMUNICATIONS: If no transmissions are received for 3 minutes after departure, climb to filed altitude direct SEA VORTAC, thence via assigned route.

▼ When control tower closed, obtain local altimeter setting on UNICOM; when not received, use McChord AFB altimeter setting. Circling not authorized East of Rwy 17-35.

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000 direct GR LOM and hold.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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Remain within 10 NM

LOM

2000 169° 349° 2000

VGSI and descent angle not coincident.

(MAJUT)

6.3 NM 0.4 NM

CATEGORY	A	B	C	D
S-35	1000-1 708 (800-1)	1000-2 708 (800-2)	1000-2 708 (800-2)	1000-2 708 (800-2)
CIRCLING	1000-1 708 (800-1)	1000-2 708 (800-2)	1000-2 708 (800-2)	1000-2 708 (800-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-35	1020-1 728 (800-1)	1020-2 728 (800-2)	1020-2 728 (800-2)	1020-2 728 (800-2)
CIRCLING	1020-1 728 (800-1)	1020-2 728 (800-2)	1020-2 728 (800-2)	1020-2 728 (800-2)

ELEV 292

MIRL Rwy 17-35

REIL Rwy 35

349° 6.7 NM from FAF

FAF to MAP 6.3 NM

Knots 60 90 120 150 180

Min:Sec 6:18 4:12 3:09 2:31 2:06

WAAS	APP CRS	Rwy Idg	5002
CH 82608	167°	TDZE	294
W17A		Apt Elev	294

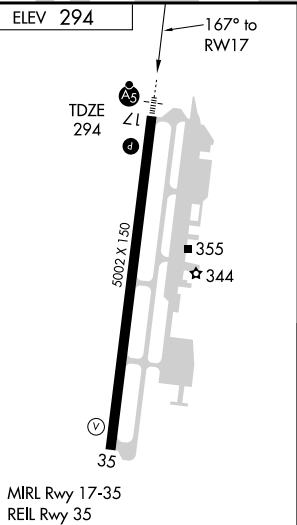
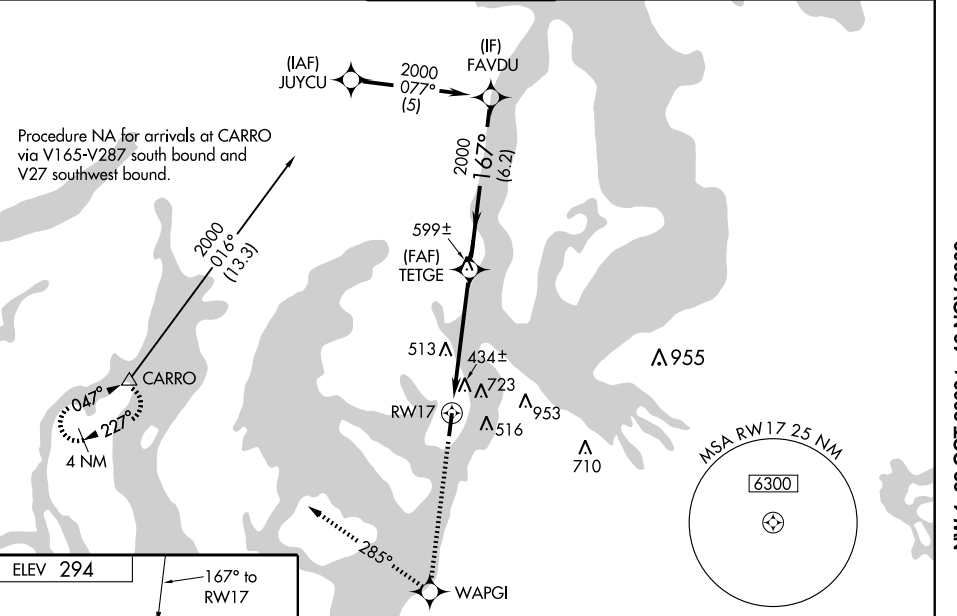
⚠ Inoperative table does not apply to LNAV Cats A and B.
Circling NA east of Rwy 17/35.

⚠ Baro-VNAV NA when using McChord AFB altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use McChord AFB altimeter setting and increase all DA/MDA 40 feet.

MALSR

MISSED APPROACH: Climb to 4000 direct WAPGI and right turn via 285° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS	SEATTLE APP CON	TACOMA TOWER ★	GND CON	UNICOM
124.05	120.1 290.9	118.5 (CTAF) 0 253.5	121.8	122.95



4000	WAPGI	285° track	CARRO	TETGE	FAVDU	Procedure Turn NA
RW17		167°		2000		GS 3.00° TCH 52
5.1 NM		6.2 NM				
CATEGORY	A	B	C	D		
LPV DA	638-1 344 (400-1)					
LNAV/VNAV DA	992-2 698 (700-2)					
LNAV MDA	980-1	686 (700-1)	980-1½ 686 (700-1½)	980-1¾ 686 (700-1¾)		
CIRCLING	980-1	686 (700-1)	980-2 686 (700-2)	980-2¼ 686 (700-2¼)		

MIRL Rwy 17-35
REIL Rwy 35

▼

Baro-VNAV NA when using McChord AFB altimeter setting.

▲

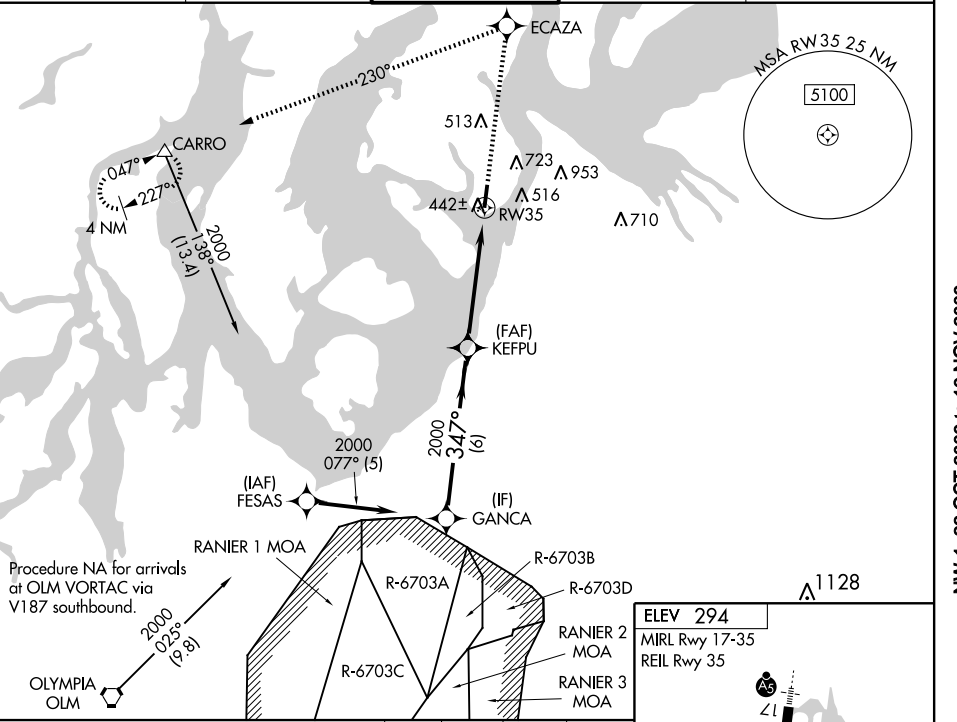
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP- 0.3 NA.

Visibility reduction by helicopters NA. Circling NA east of Rwy 17-35.

When local altimeter setting not received, use McChord AFB altimeter setting and increase all DA 25 feet and all MDA 40 feet.

MISSED APPROACH: Climb to 4000 direct ECAZA and left turn via 230° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA	GANCA	KEFPU	4000	ECAZA	230°	CARRO
GS 3.00° TCH 51	2000	347°	2000			RW35
	6 NM	5.1 NM				
CATEGORY	A	B	C	D		
LPV DA		560-1	266 (300-1)			
LNAV/VNAV DA		768-1¾	474 (500-1¾)			
LNAV MDA	840-1	546 (600-1)	840-1½ 546 (600-1½)	840-1¾ 546 (600-1¾)		
CIRCLING	980-1	686 (700-1)	980-2 686 (700-2)	980-2¼ 686 (700-2¼)		

ELEV 294

MIRL Rwy 17-35

REIL Rwy 35

5002 x 150

355

344

TDZE 294

35

347° to RW35

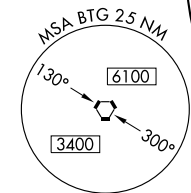
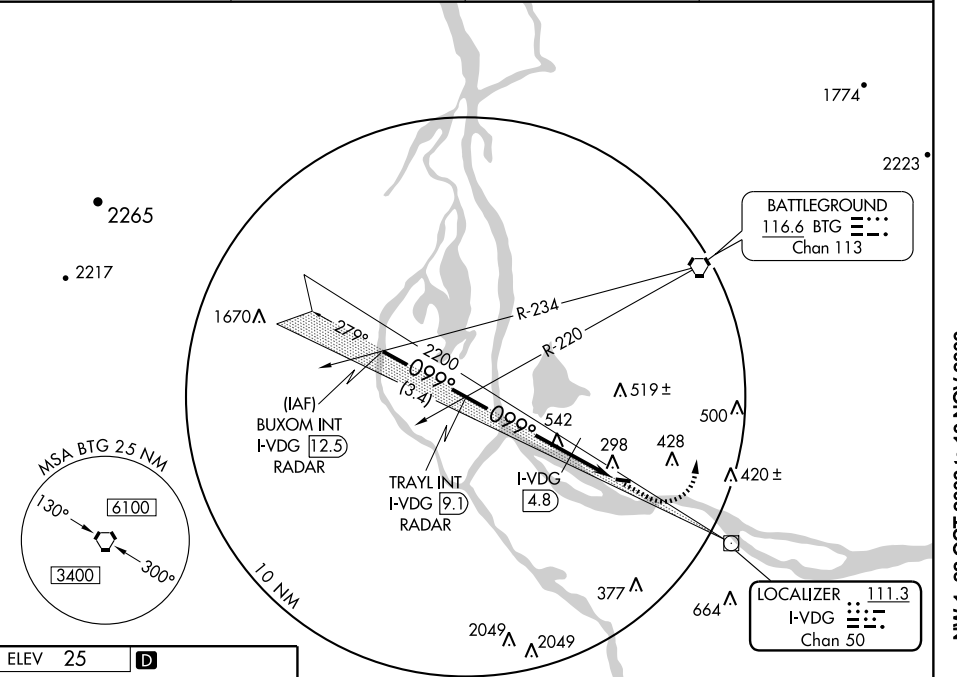
LOC/DME I-VDG 111.3 Chan 50	APP CRS 099°	Rwy Idg TDZE Apt Elev	N/A N/A 25
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NA

Use Portland Intl altimeter setting.

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 direct to BTG VORTAC.

ASOS 135.125	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 123.0 (CTAF) 1
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ELEV 25	D
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099° 6.1 NM from FAF

REIL Rwy 8 and 26
MIRL Rwy 8-26 **1**

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

3000

Procedure Turn NA

2200

3.4 NM

860

4.3 NM

860

1.8 NM

900

4000

BTG 116.6

CATEGORY	A	B	C	D
CIRCLING	860-1 835 (900-1)	860-1 ¼ 835 (900-1 ¼)	NA	
DME MINIMUMS				
CIRCLING	660-1 635 (700-1)	720-1 695 (700-1)	NA	

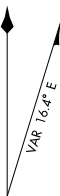
NW-1. 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

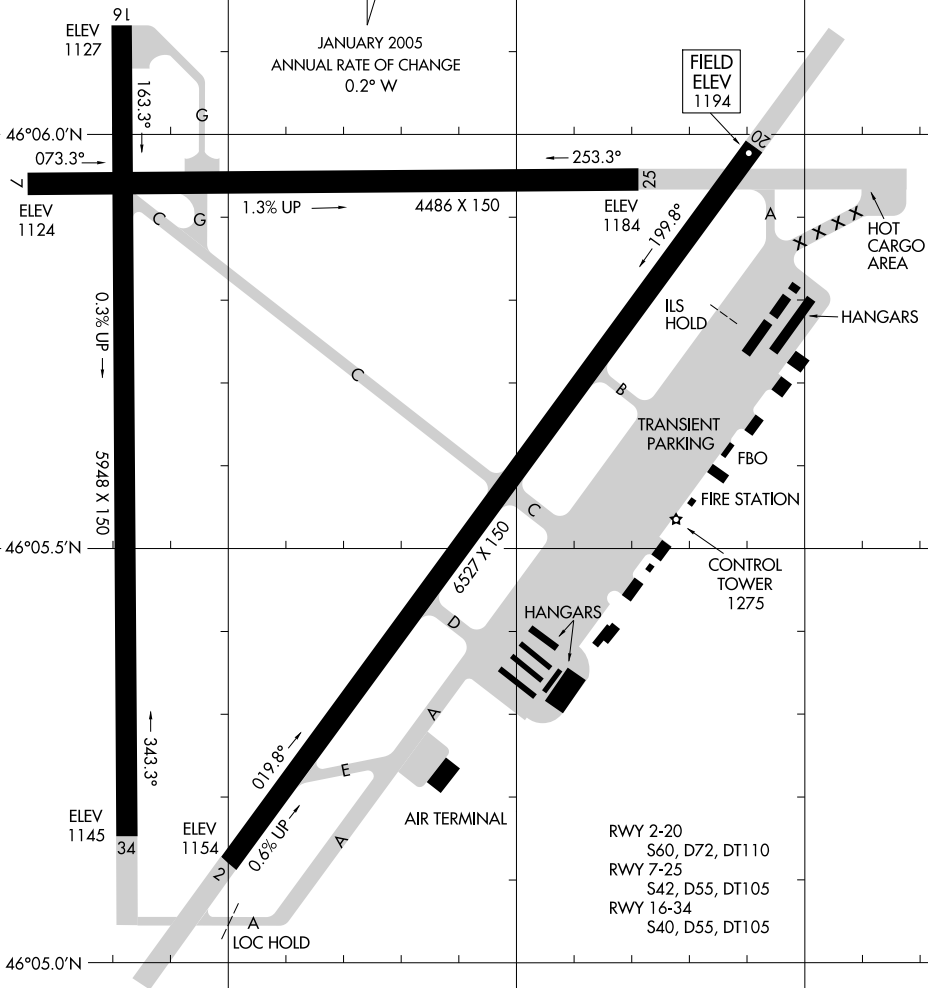
AL-440 (FAA)

WALLA WALLA RGNL (ALW)
WALLA WALLA, WASHINGTON

ASOS
135.875
WALLA WALLA TOWER ★
118.5 289.4
GND CON
121.6 289.4



JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

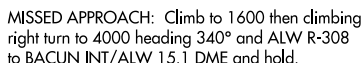
118°17.5'W

118°17.0'W

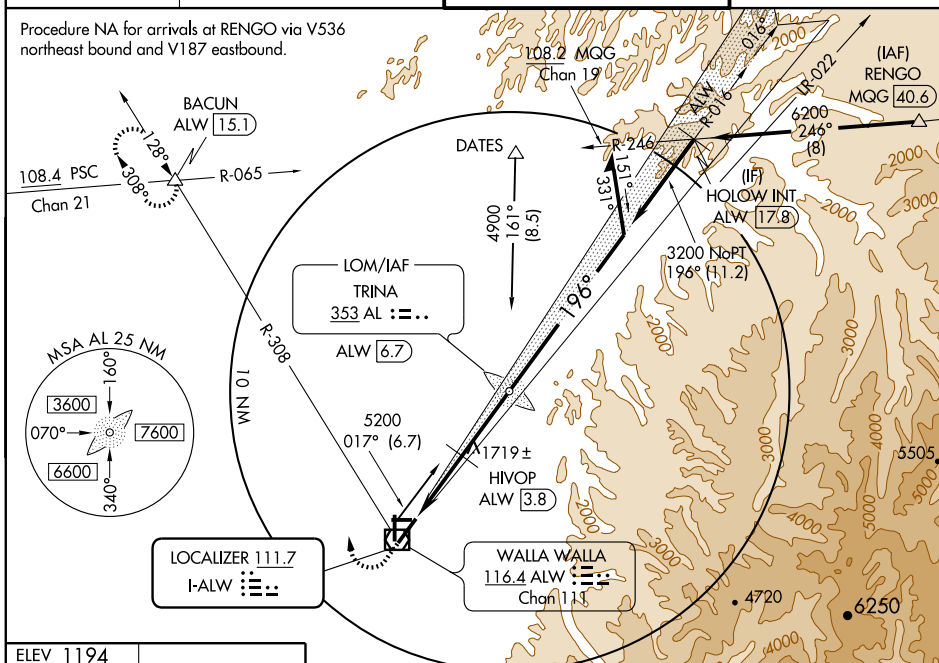
118°16.5'W

NW-1. 22 OCT 2009 to 19 NOV 2009

ILS or LOC RWY 20
WALLA WALLA RGNL (ALW)



Procedure NA for arrivals at RENO via V536
northeast bound and V187 eastbound.



1600 ↑

4000 ↗ 340°

ALW R-308 116.4	BACUN △
-----------------------	------------

* LOC only

HIVOP
ALW [3.8]

3069

016°

3800

196°

3300

GS 3.00°
TCH 50

* 2200

Maximum procedure turn entry altitude 6000

2.8 NM

2.9 NM

Remain within 10 NM

CATEGORY	A	B	C	D
S-ILS 20	#1394/24		200 (200-½)	
S-LOC 20	2200/40 1006 (1100-¾)	2200/50 1006 (1100-1)	2200-2½ 1006 (1100-2½)	
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3 1006 (1100-3)	
DME MINIMUMS				
S-LOC 20	1980/24 786 (800-½)	1980/40 786 (800-¾)	1980-1¾ 786 (800-1¾)	1980-2 786 (800-2)
CIRCLING	1980-1 786 (800-1)	1980-1¼ 786 (800-1¼)	1980-2¼ 786 (800-2¼)	1980-2½ 786 (800-2½)

LOM AL <u>353</u>	APP CRS 196°	Rwy Idg TDZE Apt Elev	6527 1194 1194
-----------------------------	------------------------	-----------------------------	---

NDB RWY 20
WALLA WALLA RGNL (ALW)

T
A Cat. A and B S-20 visibility increased ½ mile for inoperative ALSF-1.

MALSR

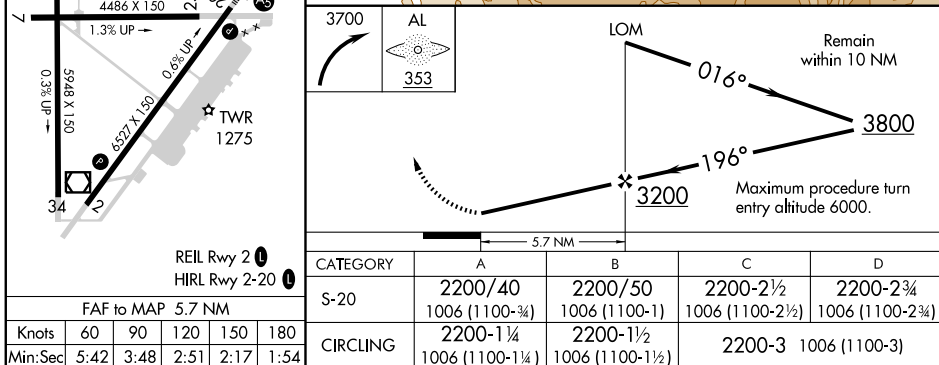
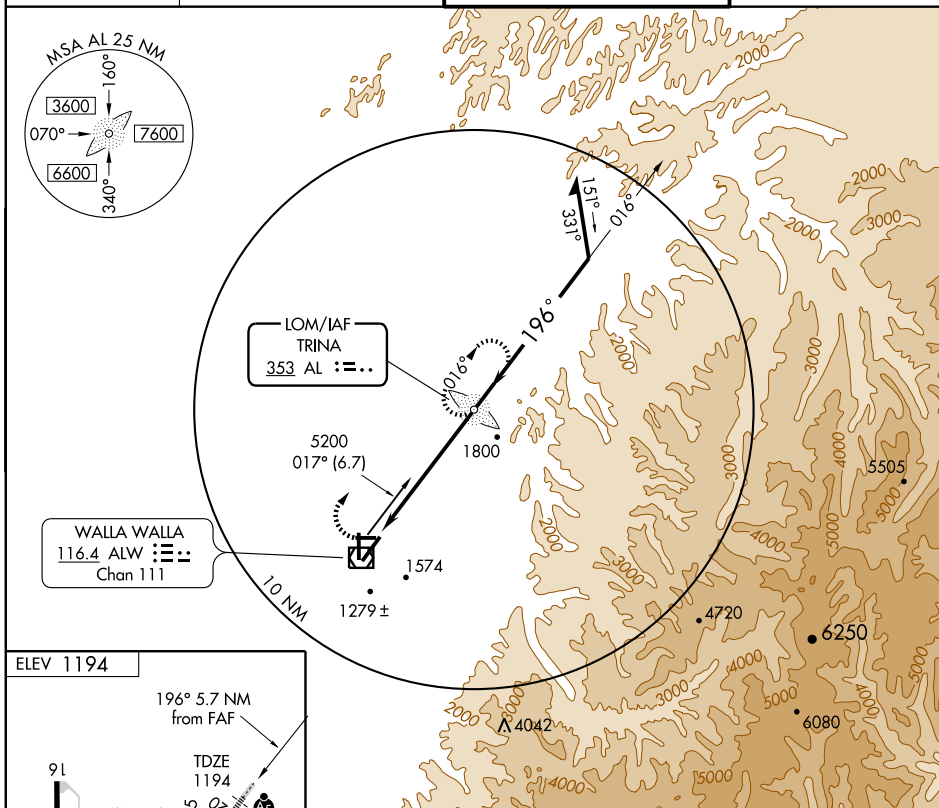
MISSED APPROACH: Climbing right turn to 3700 direct TRINA LOM and hold.

ASOS
135.875

CHINOOK APP CON ★
133.15 379.15

WALLA WALLA TOWER ★
118.5 (CTAF) **L** 289.4

GND CON
121.6 289.4



WAAS CH 72805 W02A	APP CRS 016°	Rwy Idg 6527 TDZE 1173 Apt Elev 1194
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RNAV (GPS) RWY 2

▼ DME/DME RNP- 0.3 NA.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
When local altimeter setting not received, use Pendent altimeter setting and increase all DAs/MDAs 120 feet and LPV visibilities ¼ mile, LNAV/VNAV visibilities ½ mile, LNAV Cats. C/D visibility ¼ mile, and Circling Cat. C/D visibility ½ mile. VDP and Baro-VNAV NA when using Pendent altimeter setting.

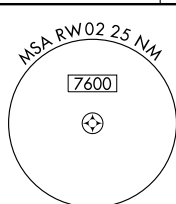
MISSED APPROACH: Climb to 4000 direct TRINA and via 341° track to DATES and hold.

ASOS
135.875

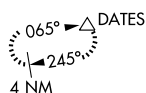
CHINOOK APP CON ★
133.15 379.15

WALLA WALLA TOWER ★
118.5 (CTAF) **L** 289.4

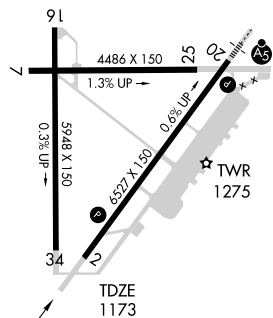
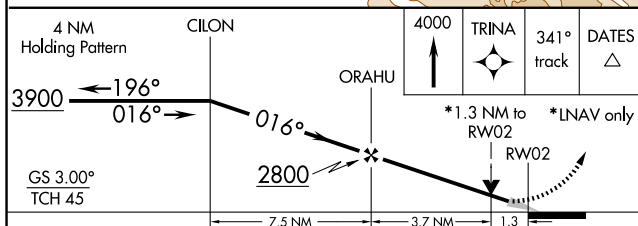
GND CON
121.6 289.4



MISSED APCH FIX



ELEV 1194



CATEGORY	A	B	C	D
LPV DA	1423-1 250 (300-1)			
LNAV/VNAV DA	1612-1½ 439 (500-1½)			
LNAV MDA	1620-1 447 (500-1)	1620-1¼ 447 (500-1¼)	1620-1½ 447 (500-1½)	
CIRCLING	1760-1 566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)	

REIL Rwy 2 **L**
HIRL Rwy 2-20 **L**

APP CRS

160°

Rwy Idg

5948

TDZE

1136

Apt Elev

1191

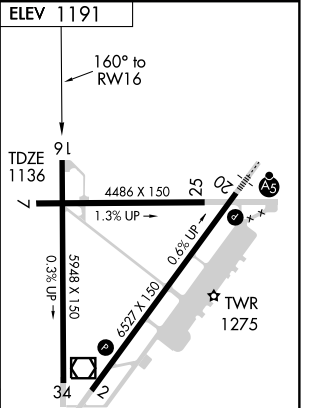
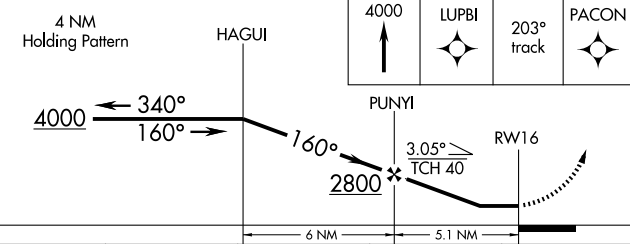
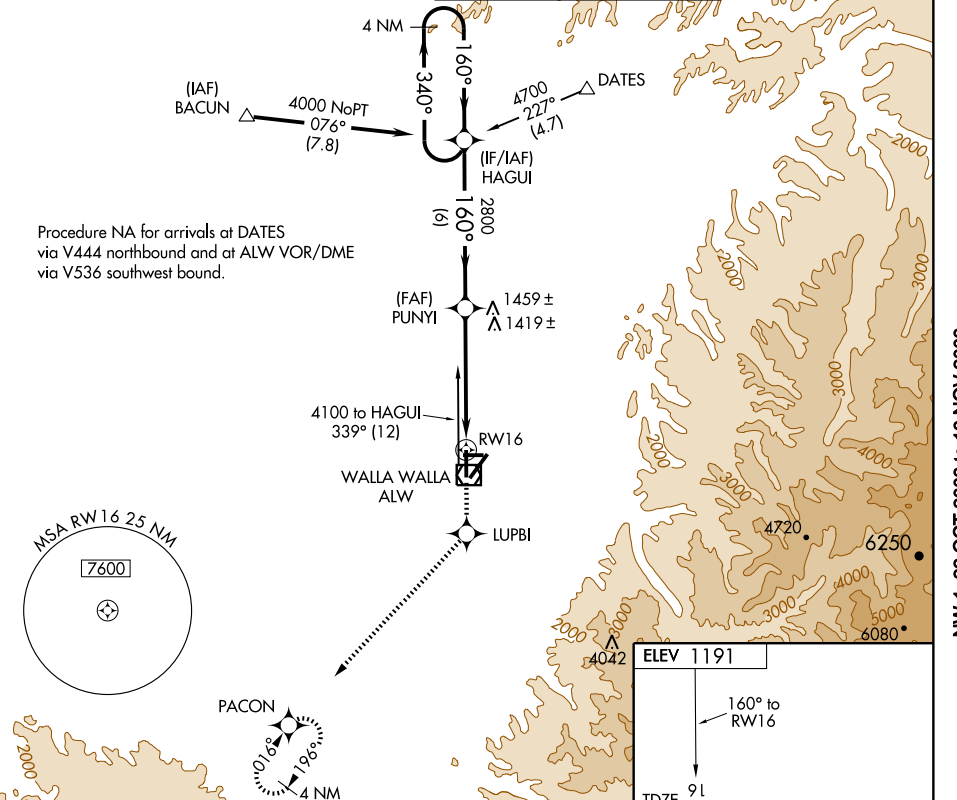
▼

▲

Straight-in/circling to Rwy 16 NA at night.
DME/DME RNP-0.3 NA.
Inoperative table does not apply.

MISSED APPROACH: Climb to 4000 direct LUPBI
and via 203° track to PACON and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 1 289.4	GND CON 121.6 289.4
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CATEGORY	A	B	C	D
RNAV MDA	1660-1	524 (600-1)	1660-1½ 524 (600-1½)	1660-1¾ 524 (600-1¾)
CIRCLING	1760-1	569 (600-1)	1820-1¾ 629 (700-1¾)	1980-2½ 789 (800-2½)

REIL Rwy 2 1

HIRL Rwy 2-20 1

WAAS CH 90299 W20A	APP CRS 196°	Rwy Idg TDZE Apt Elev	6527 1194 1194
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RNAV (GPS) RWY 20

WALLA WALLA RGNL (ALW)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -17°C (2°F).
 For inoperative MALSR, increase LPV visibility all Cats to RVR 4000.



MISSED APPROACH: Climb to 4000 direct PACON and hold.

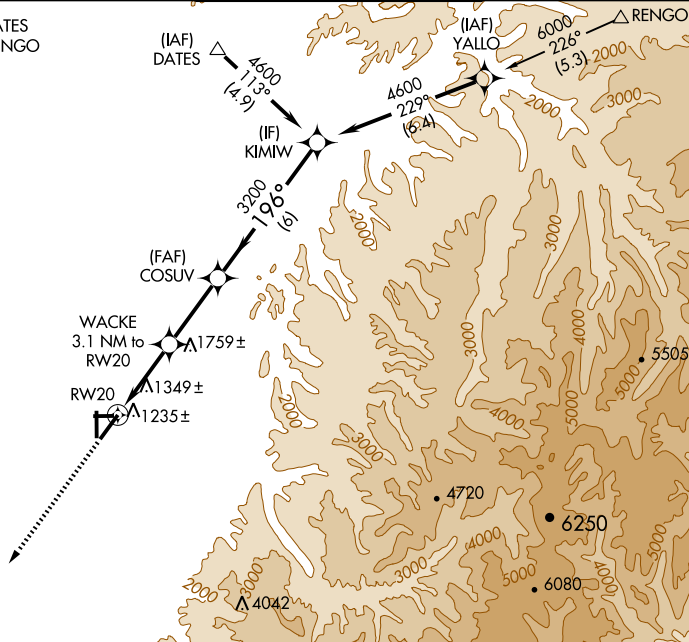
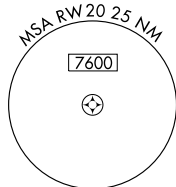
ASOS
135.875

CHINOOK APP CON ★
133.15 379.15

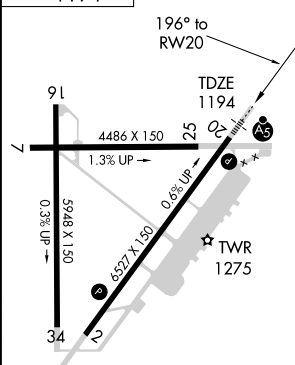
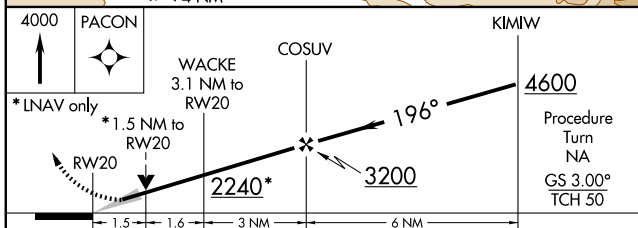
WALLA WALLA TOWER ★
118.5 (CTAF) 0 289.4

GND CON
121.6 289.4

Procedure NA for arrivals at DATES via V444 northbound and at RENG0 via V536 northeast bound.



ELEV 1194



CATEGORY	A	B	C	D
LPV DA	1444/24 250 (300-½)			
LNNAV/VNAV	1694/60 500 (500-1¼)			
LNNAV MDA	1720/24 526 (600-½)		1720/50 526 (600-1)	1720/60 526 (600-1¼)
CIRCLING	1760-1¾ 566 (600-1¾)		1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)

REIL Rwy 2 0
HIRL Rwy 2-20 0

VOR/DME ALW	APP CRS	Rwy Idg	6527
116.4	015°	TDZE	1175
Chan 111		Apt Elev	1191

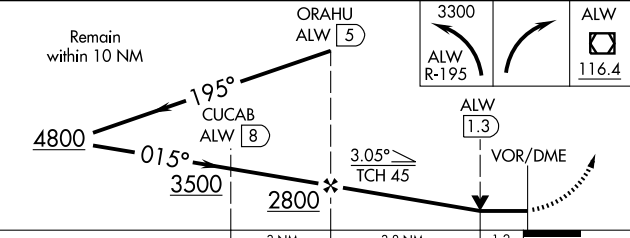
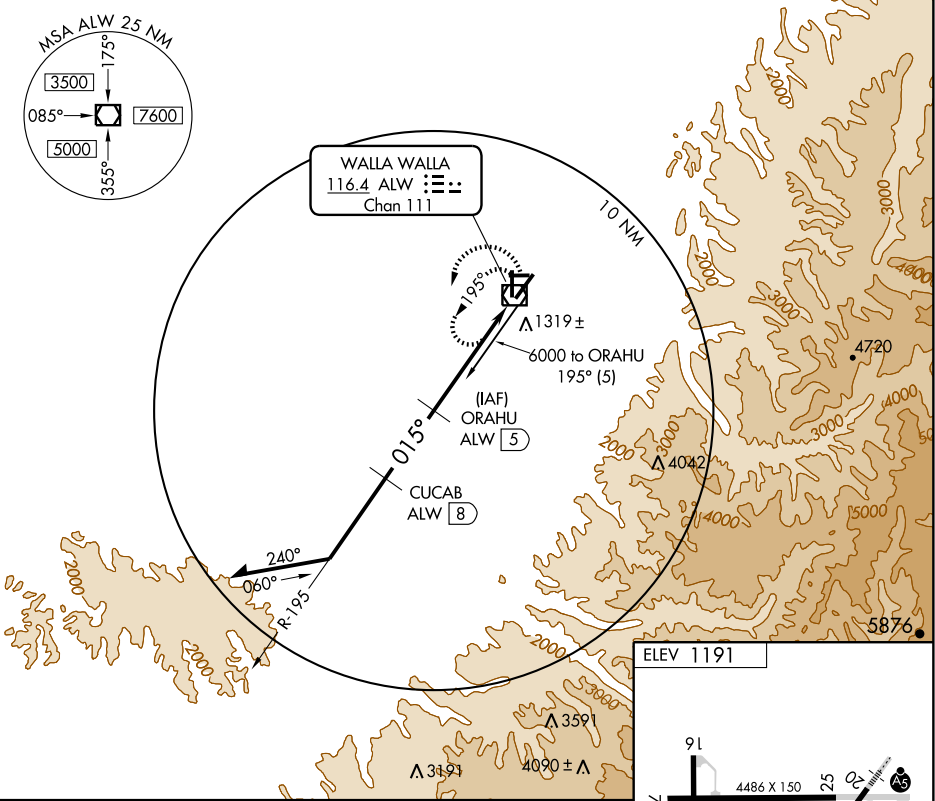
VOR/DME RWY 2
WALLA WALLA RGNL (ALW)

▼

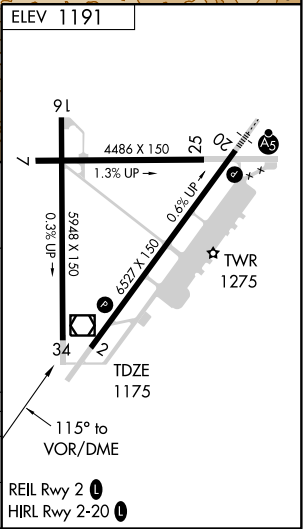
▲

MISSED APPROACH: Climbing left turn to 3300 via ALW VOR/DME R-195 within 10 DME then turn right direct ALW VOR/DME and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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CATEGORY	A	B	C	D
S-2	1580-1	405 (400-1)	1580-1¼	405 (400-1¼)
CIRCLING	1760-1	569 (600-1)	1820-1¾ 629 (700-1¾)	1980-2½ 789 (800-2½)



VOR/DME ALW	APP CRS	Rwy Idg	5948
116.4	154°	TDZE	1136
Chan 111		Apt Elev	1191

VOR RWY 16

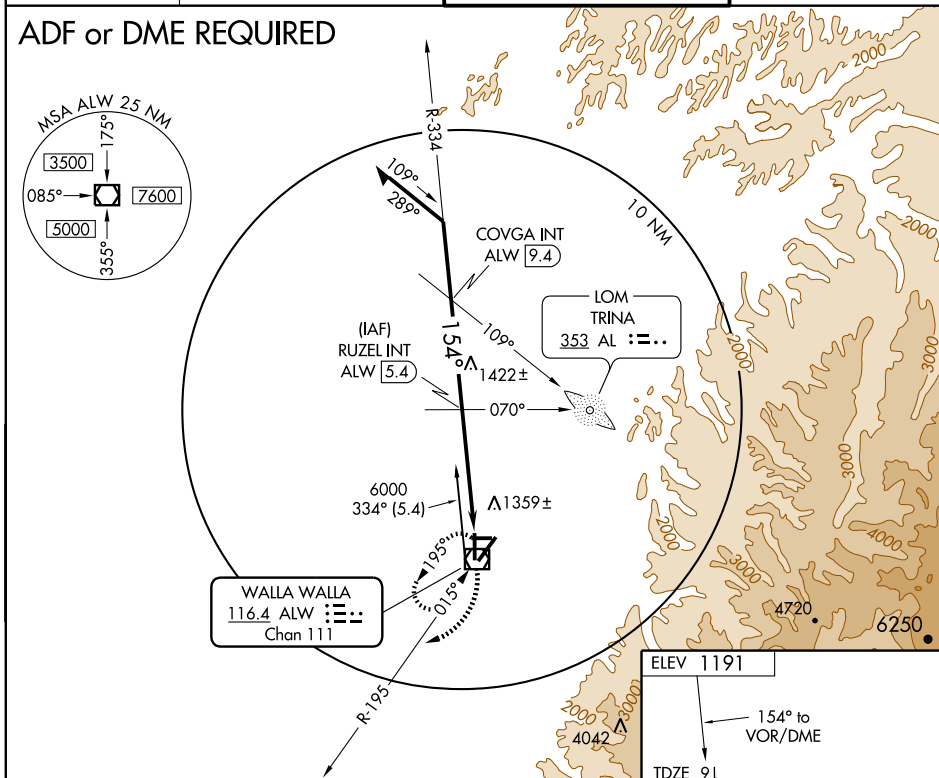
WALLA WALLA RGNL (ALW)

▼ Straight-in/circling to Rwy 16 NA at night.
▲ NA Inoperative table does not apply.

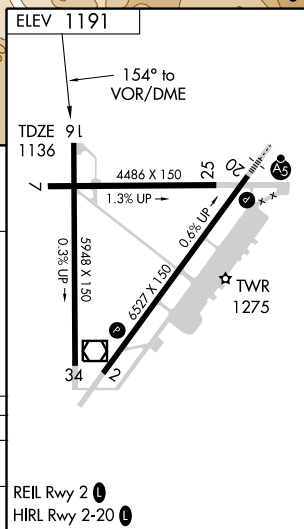
MISSED APPROACH: Climbing right turn to 3000
 via ALW VOR/DME R-195 within 10 DME then
 right turn direct ALW VOR/DME and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 1 289.4	GND CON 121.6 289.4
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ADF or DME REQUIRED

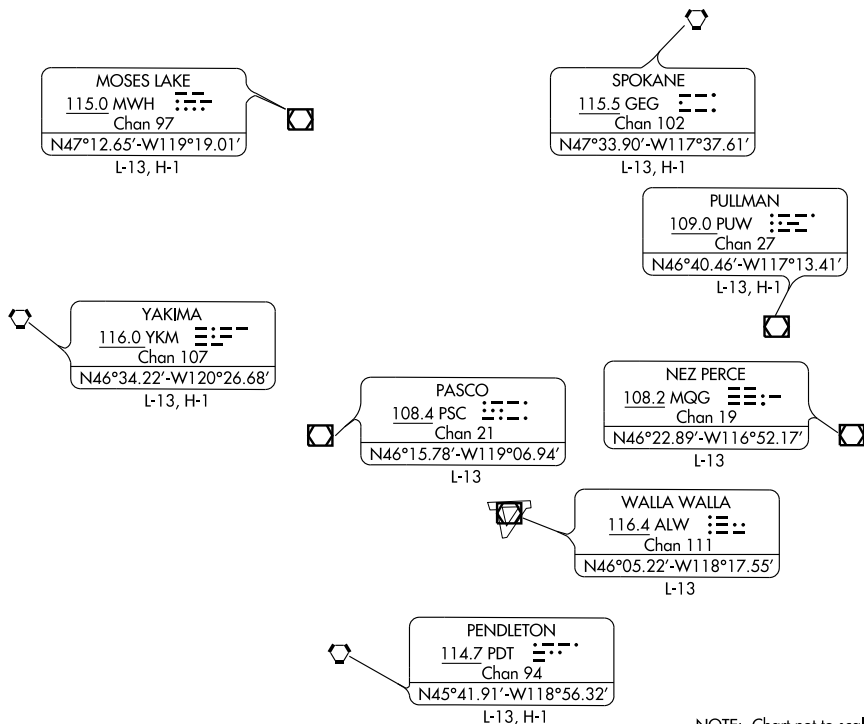


CATEGORY	A		B		C		D	
	1620-1		484 (500-1)		1620-1½ 484 (500-1½)		1620-1½ 484 (500-1½)	
CIRCLING	1760-1		569 (600-1)		1820-1¾ 629 (700-1¾)		1980-2½ 789 (800-2½)	



REIL Rwy 2 1
 HIRL Rwy 2-20 1

WALLA WALLA GND CON
121.6 289.4
WALLA WALLA TOWER ★
118.5 (CTAF) 289.4
CHINOOK APP CON ★
133.15 379.15



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via specified turn and heading for vector to assigned route.

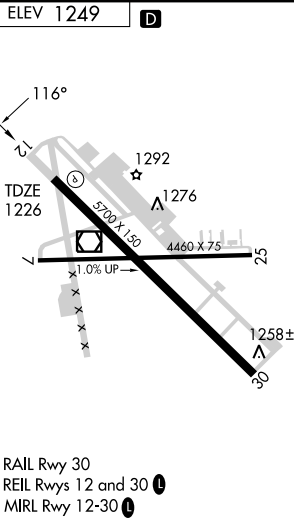
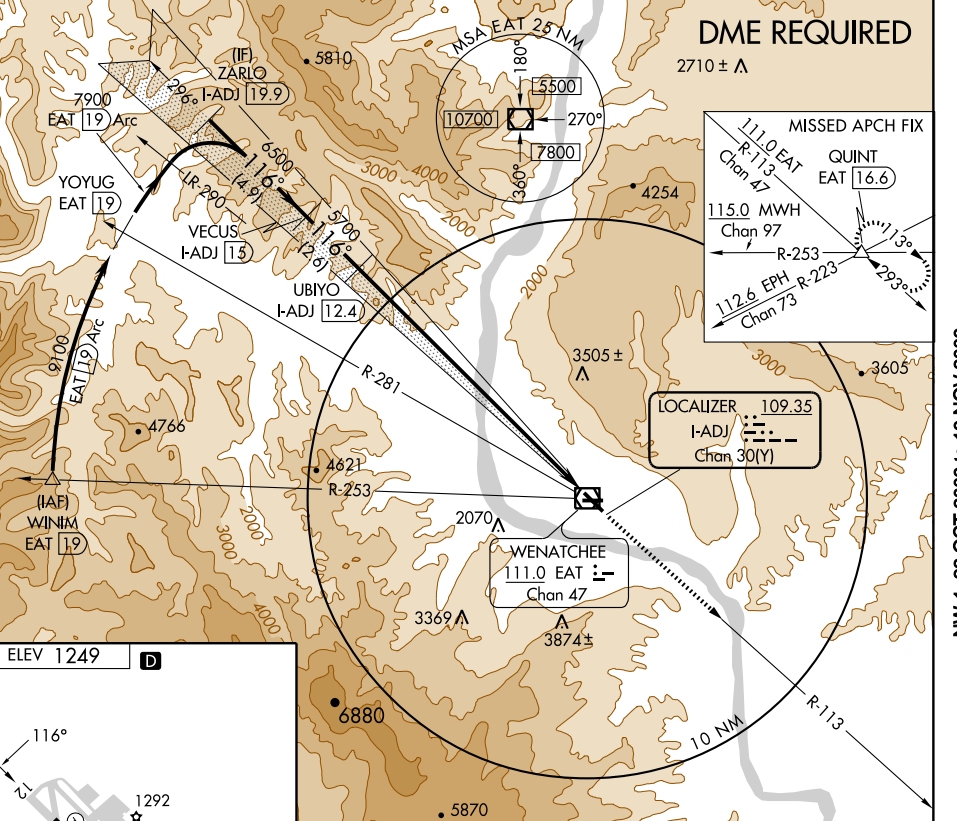
LOST COMMUNICATIONS: If not in contact with Departure Control after reaching 2500' continue climb to assigned altitude and proceed direct to ALW VOR/DME, thence via assigned route.

Note: Air Traffic Control may assign turns and magnetic headings of 195° clockwise through 020° in the initial clearance.

When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 4000 direct EAT VOR/DME and via EAT R-113 to QUINT INT/EAT 16.6 DME and hold.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF)
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	ZARLO I-ADJ 19.9	VECUS I-ADJ 15	UBIYO I-ADJ 12.4	4000 EAT 111.0	EAT R-113 111.0	QUINT 16.6
	7900	6500	5700	Use I-ADJ DME when on the localizer course. VGSI and ILS glidepath not coincident.		
	4.9 NM			2.6 NM		
				11.3 NM		
CATEGORY	A	B	C	D		
S-ILS 12	2539-4			1313 (1300-4)	NA	
CIRCLING	NA					

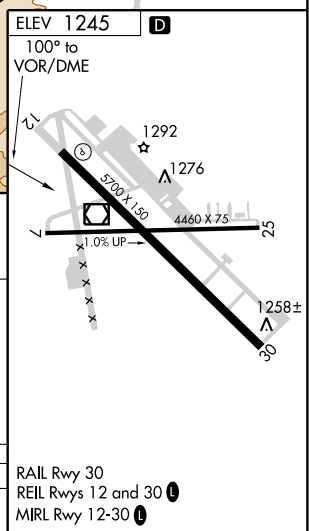
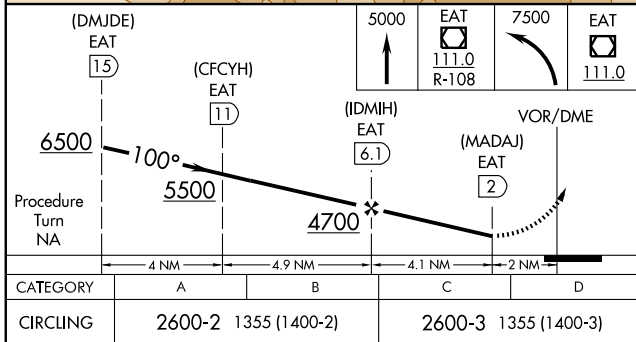
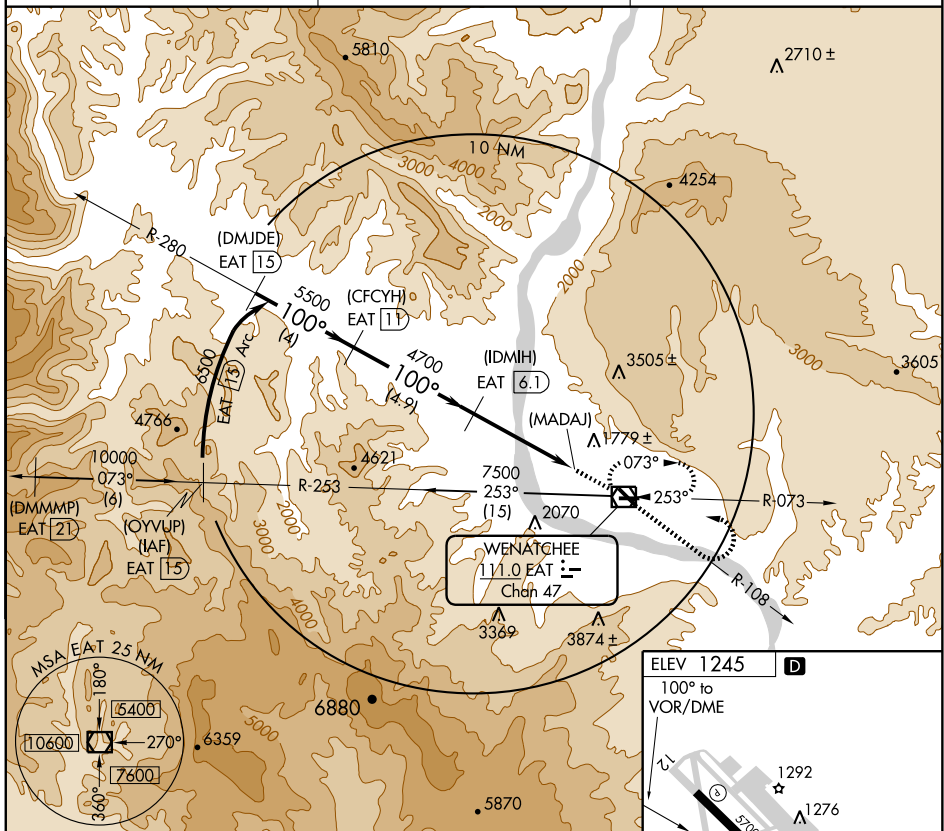
NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME or GPS-C

Circling NA northeast of Rwy 12-30.

MISSED APPROACH: Climb to 5000 direct EAT VOR/DME and via EAT R-108, then climbing left turn to 7500 direct EAT VOR/DME and hold.

UNICOM
123.0 (CTAF) **L**



VOR/DME EAT 111.0 Chan 47	APP CRS 285°	Rwy Idg TDZE Apt Elev 1245
---	------------------------	---

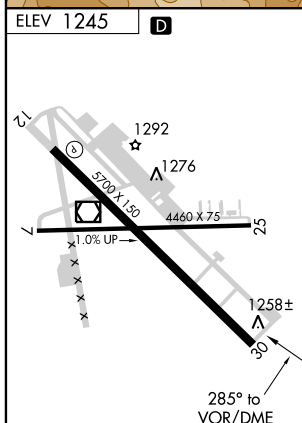
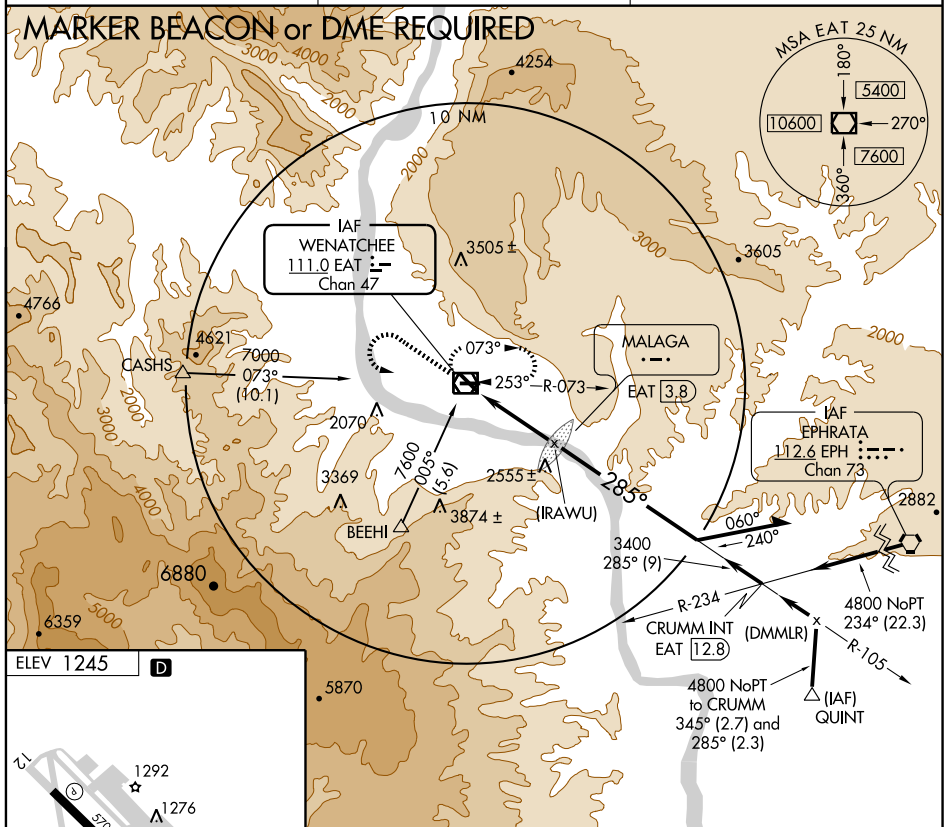
VOR or GPS-A

WENATCHEE/PANGBORN MEMORIAL (EAT)

⚠ Circling NA northeast of Rwy 12-30.

MISSED APPROACH: Climb to 2940 then climbing left turn to 5000 direct EAT VOR/DME and hold

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) 0
------------------------	--------------------------------------	---------------------------------



RAIL Rwy 30
REIL Rwy 12 and 30 **0**
MIRL Rwy 12-30 **0**

	2940	5000	EAT 111.0	VOR/DME	Remain within 15 NM
				(IRAWU) MALAGA FM EAT 3.8	4800
				3400	
				3.8 NM	
CATEGORY	A	B	C	D	
CIRCLING	2560-1 1/4 1315 (1400-1 1/4)	2560-1 1/2 1315 (1400-1 1/2)	2560-3	1315 (1400-3)	

VOR/DME EAT 111.0 Chan 47	APP CRS 285°	Rwy Idg N/A TDZE N/A Apt Elev 1245
---	------------------------	---

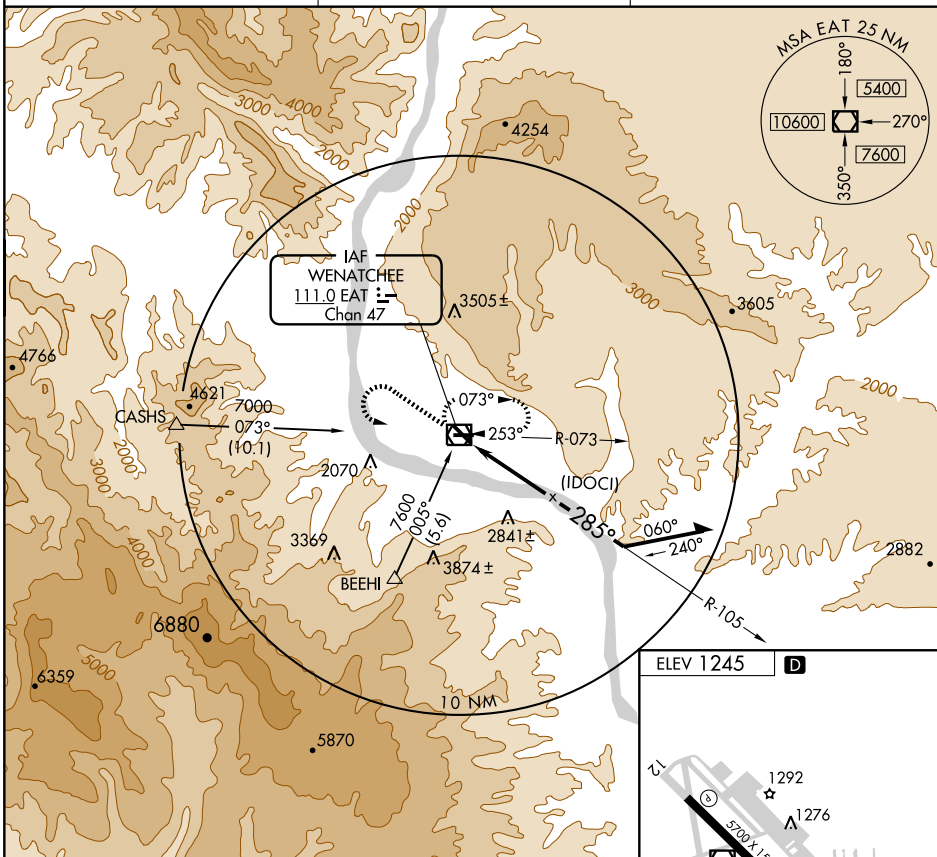
VOR or GPS-B
WENATCHEE/PANGBORN MEMORIAL (EAT)

T
A Circling NA northeast of Rwy 12-30.

MISSED APPROACH: Climb to 3700 then climbing left turn to 5000 direct EAT VOR/DME and hold.

ASOS
119.925

SEATTLE CENTER
126.1 291.6

UNICOM
123.0 (CTAF) **L**

NW-1. 22 OCT 2009 to 19 NOV 2009

3700	5000	EAT
		111.0

VOR/DME

Remain within 10 NM

105°

(IDOC)

285°

4800

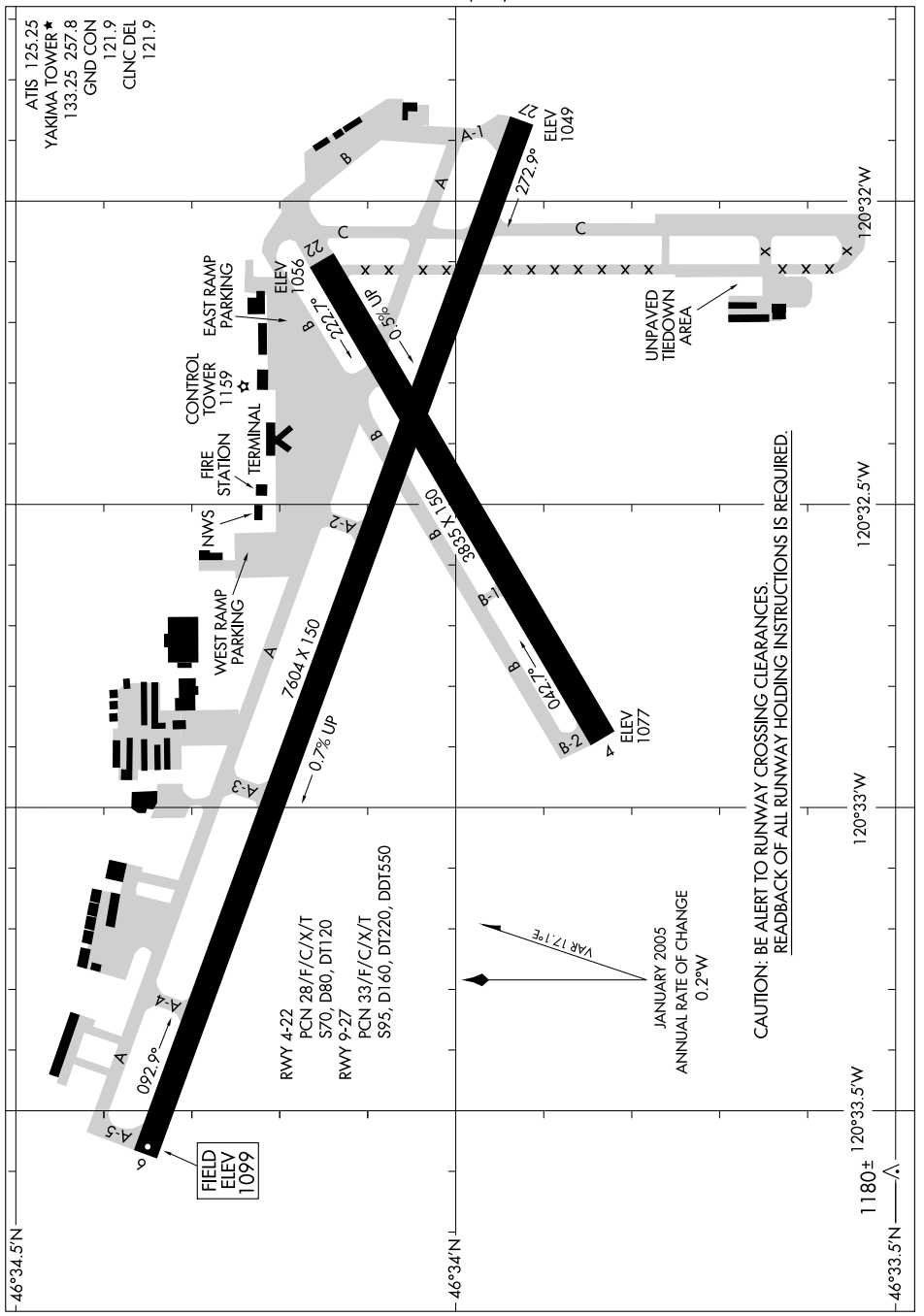
4 NM

CATEGORY	A	B	C	D
CIRCLING	3300-1¼ 2055 (2100-1¼)	3300-1½ 2055 (2100-1½)	3300-3 2055 (2100-3)	

RAIL Rwy 30
REIL Rwy 12 and 30 **L**
MIRL Rwy 12-30 **L**

AIRPORT DIAGRAM

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
AL-465 (FAA) YAKIMA, WASHINGTON



NW-1. 22 OCT 2009 to 19 NOV 2009

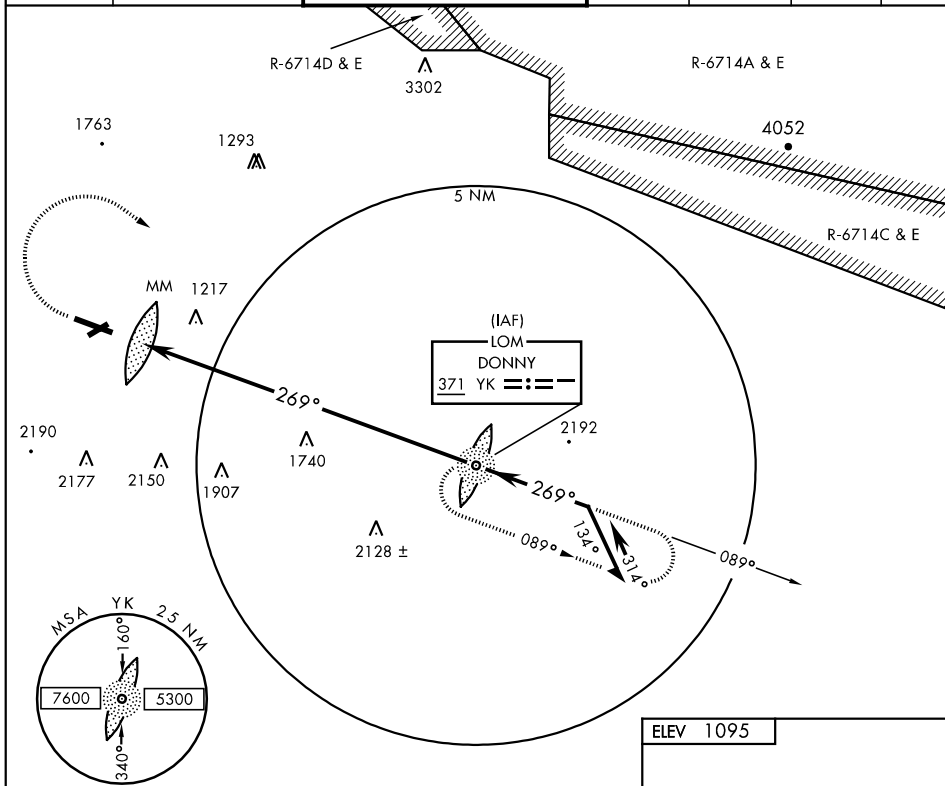
LOM YK 371	APCH CRS 269°	Rwy ldg TDZE Arpt Elev 7603 1065 1095
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AL-465 [USA]

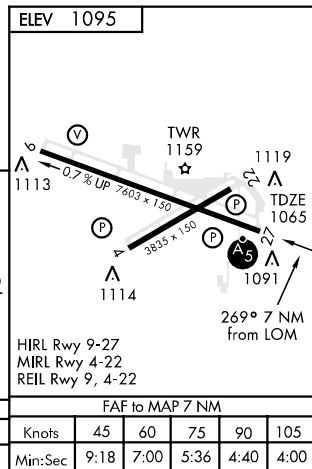
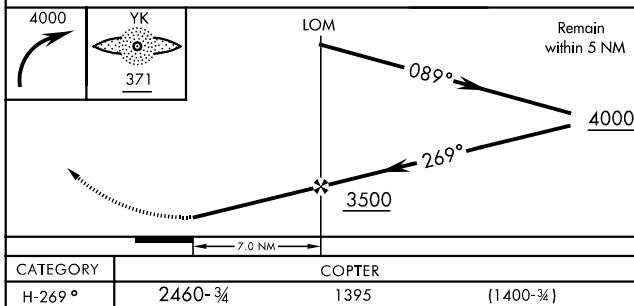
YAKIMA AIR TERMINAL/ MC ALLISTER FLD (KYKM)

NA	MALSR 	MISSED APPROACH: Climbing right turn to 4000 direct DONNY LOM and hold.
-----------	------------------	--

ATIS ★ 125.25	CHINOOK APP CON 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95	ASOS
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COPTER ONLY

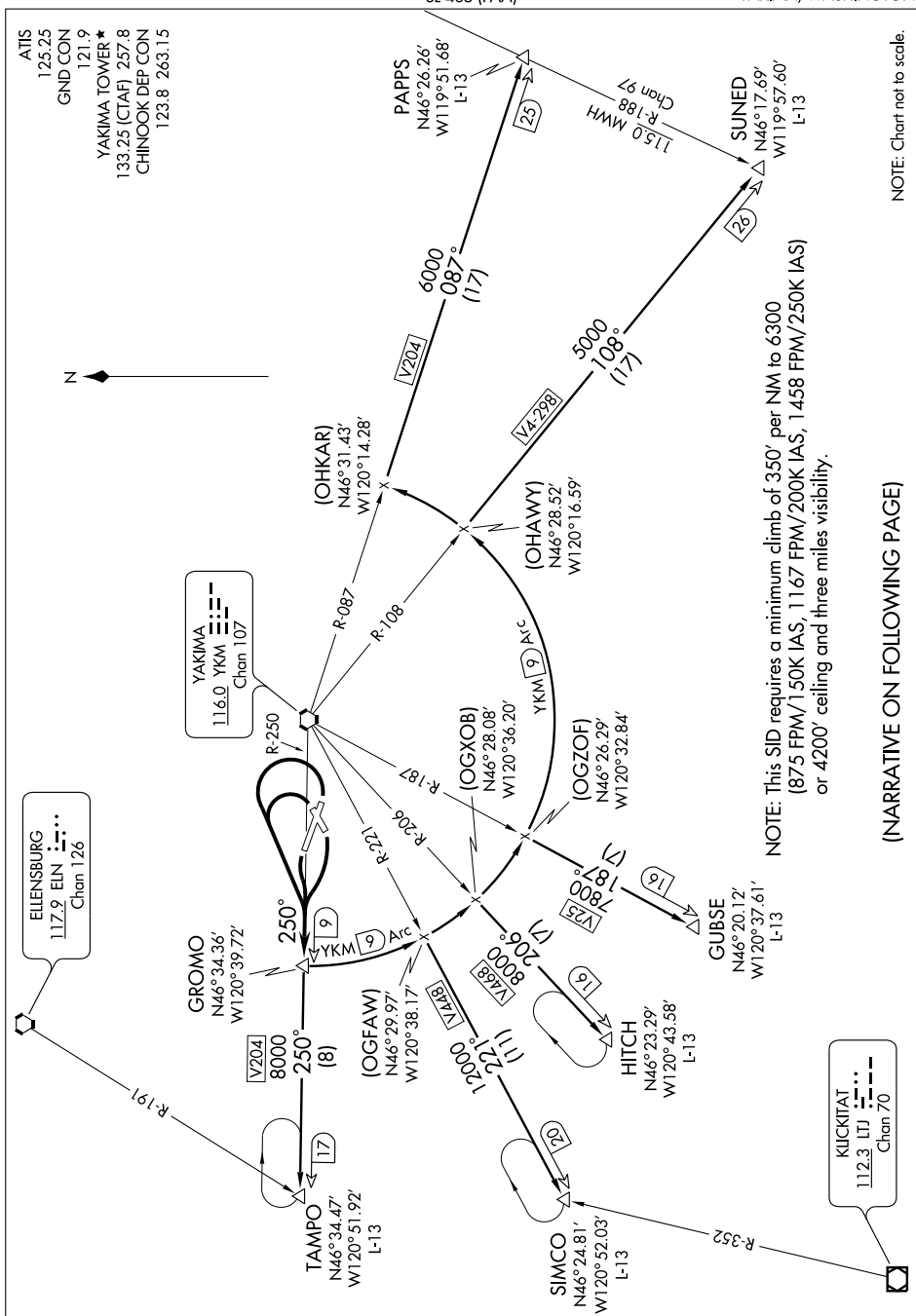


GROMO TWO DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

SL-465 (FAA)

YAKIMA, WASHINGTON





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left, thence....

TAKE-OFF RUNWAY 22: Turn right, thence....

TAKE-OFF RUNWAY 27: Climb runway heading, thence....

....Intercept and proceed via YKM R-250 to the GROMO DME Fix (YKM R-250/9), thence via (assigned transition).

GUBSE TRANSITION (GROMO2.GUBSE): From over GROMO DME Fix via 9 DME Arc and V25 to GUBSE DME Fix.

HITCH TRANSITION (GROMO2.HITCH): From over GROMO DME Fix via 9 DME Arc and V468 to HITCH DME Fix. NOTE: Climb in holding pattern NE of HITCH DME Fix, right turns, 206° inbound to 8000 feet before proceeding on course.

PAPPS TRANSITION (GROMO2.PAPPS): From over GROMO DME Fix via 9 DME Arc and V204 to PAPPS INT.

SIMCO TRANSITION (GROMO2.SIMCO): From over GROMO DME Fix via 9 DME Arc and V448 to SIMCO INT. NOTE: Climb in holding pattern NE of SIMCO INT, right turns, 221° inbound to 12000 feet before proceeding on course.

SUNED TRANSITION (GROMO2.SUNED): From over GROMO DME Fix via 9 DME Arc and V4 to SUNED INT.

TAMPO TRANSITION (GROMO2.TAMPO): From over GROMO DME Fix via V204 to TAMPO INT. NOTE: Climb in holding pattern east of TAMPO INT, right turns, 250° inbound to 8000' before proceeding on course.

ILS RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

MALSR

MISSED APPROACH: Climb to 2300, then climbing right turn to 4100 via YKM R-285 to YKM VORTAC and hold.

[illegible]

CATEGORY	A	B	C	D
S-ILS 27	**1265/24 200 (200-½)			
CIRCLING	1640-1	545 (600-1)	1660-1½ 565 (600-1½)	1780-2¼ 685 (700-2¼)

LOC/DME BC-B

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

- | | |
|--|---|
| <p>▼ Alternate minimums not authorized when control tower closed.
Circling not authorized south of Rwy 9-27.</p> <p>▲ Inoperative table does not apply.
DME from YKM VORTAC. Simultaneous reception of I-YKM and YKM DME required.</p> | <p>MISSED APPROACH: Climbing left turn direct YKM VORTAC. Continue climb to 3500 via YKM R-108 then climbing right turn to 4000 direct YKM VORTAC.</p> |
|--|---|

The chart depicts the Yakima VORTAC facility at Chan 107, operating on frequency 116.0 MHz. Key features include:

- VORTAC Station:** YAKIMA 116.0 YKM, Chan 107.
- Navigation Aids:**
 - LOCALIZER:** I-YKM 110.1
 - DME Arcs:** 5400 NoPT, 16 DME Arc.
 - Bearing Lines:** LR-271, LR-257, LR-257 TAMPO.
 - Ranges:** R-284, R-310, R-250, R-108, R-187.
- Elevation and Terrain:** ELEV 1095, TWR 1159, 1119±. Contours show elevations up to 6515 feet.
- Other Markings:** 10 NM radius circle, 089° 6 NM from FAF, 070° (Z), 070° (Z), 070° (Z).

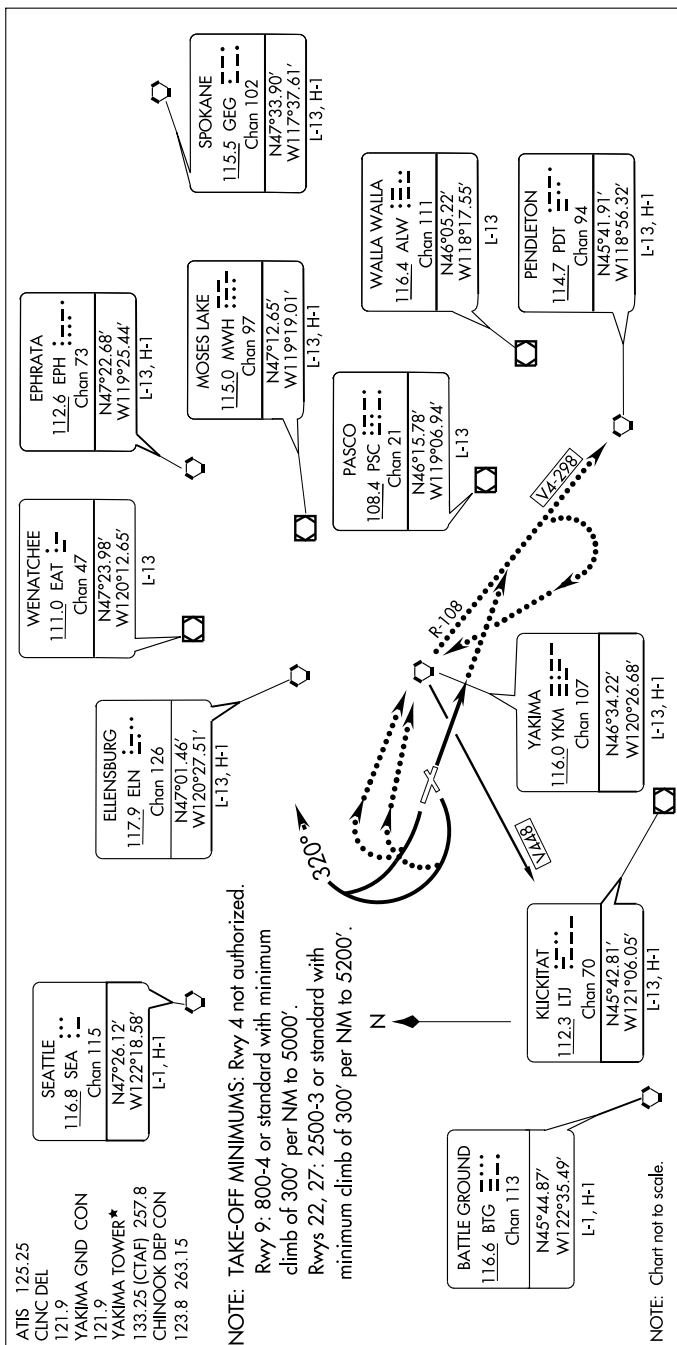
NW-1 22 OCT 2009 to 19 NOV 2009

Procedure Turn NA					1113 7604 X 130 3835 X 150 1114±					
2.2 NM 3.2 NM 3.1 NM 2.2 NM 0.6					MIRL Rwy 4-22 HIRL Rwy 9-27 REIL Rws 4, 9, and 22					
CATEGORY	A		B		C		D			
CIRCLING	1700-1		605 (700-1)		1700-1 3/4 605 (700-1 3/4)		1780-2 1/4 685 (700-2 1/4)			
	Knots		60		90		120		150	180
	Min:Sec									

NACHES ONE DEPARTURE

SL-465 (FAA)

YAKIMA, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Runway heading for vector to assigned route/fix. Thence

TAKE-OFF RUNWAY 22 and 27: Turn right heading 320° for vector to assigned route/fix. Thence

.... Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure: Rwy 9 climb runway heading and outbound YKM VORTAC R-108, Rwy 22, climbing right turn direct YKM VORTAC and outbound YKM VORTAC R-108, Eastbound V4-V298 climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (southwestbound V448 continue minimum climb of 300' per NM to 9500') then climbing right turn direct YKM VORTAC. Cross YKM VORTAC at or above MEA or MCA for route of flight.

VORTAC YKM	APP CRS	Rwy Idg	7604
<u>116.0</u>	244°	TDZE	1065
Chn 107		Apt Elev	1095

VOR/DME or TACAN or GPS RWY 27

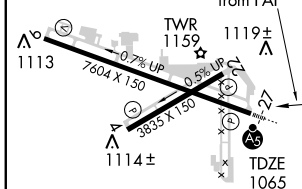
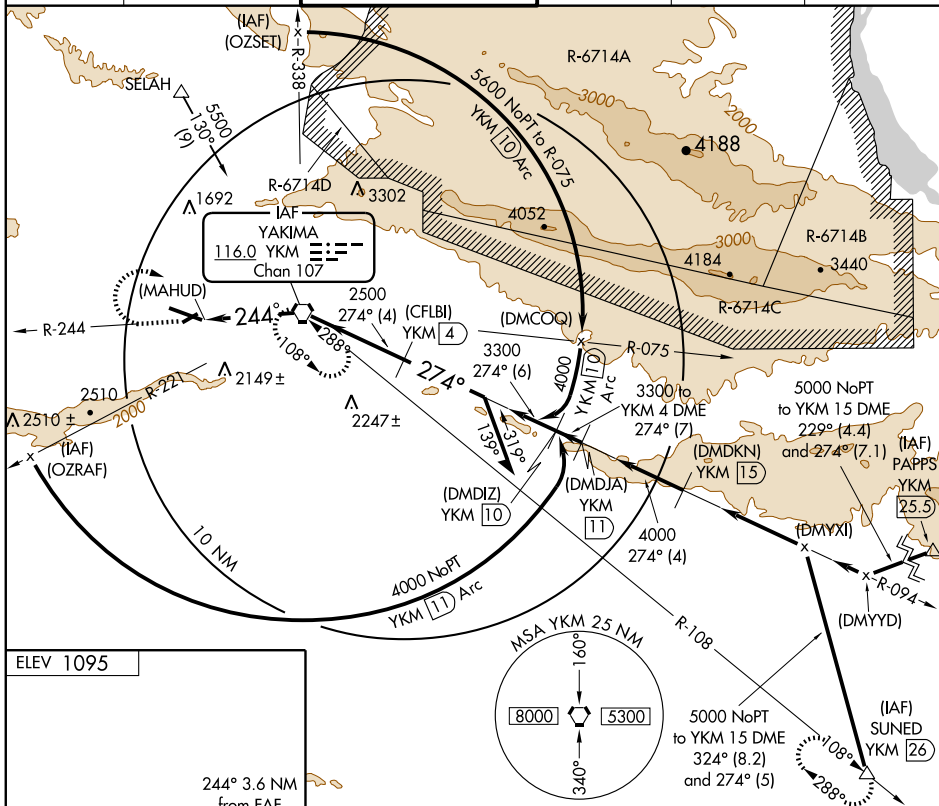
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

T Inoperative table does not apply.
A Circling not authorized South of Rwy 9-27.

MALSR

MISSED APPROACH: Climb to 2500 via YKM R-244, then climbing right turn to 4000 direct YKM VORTAC and hold. (TACAN aircraft continue climb to 5000 via R-108 to SUNED 26 DME and hold, West, Right turns 108° inbound).

ATIS 125.25	CHINOOK APP CON ★ 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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MIRL Rwy 4-22
HIRL Rwy 9-27 **L**
REIL Rwy 4, 9, and 22

Knots	60	90	120	150	180
Min:Sec					

CATEGORY	A	B	C	D
S-27	1780/50 715 (700-1)		1780-2 715 (700-2)	1840-2½ 775 (800-2½)
CIRCLING	1780-1 685 (700-1)		1780-2 685 (700-2)	1840-2½ 745 (800-2½)

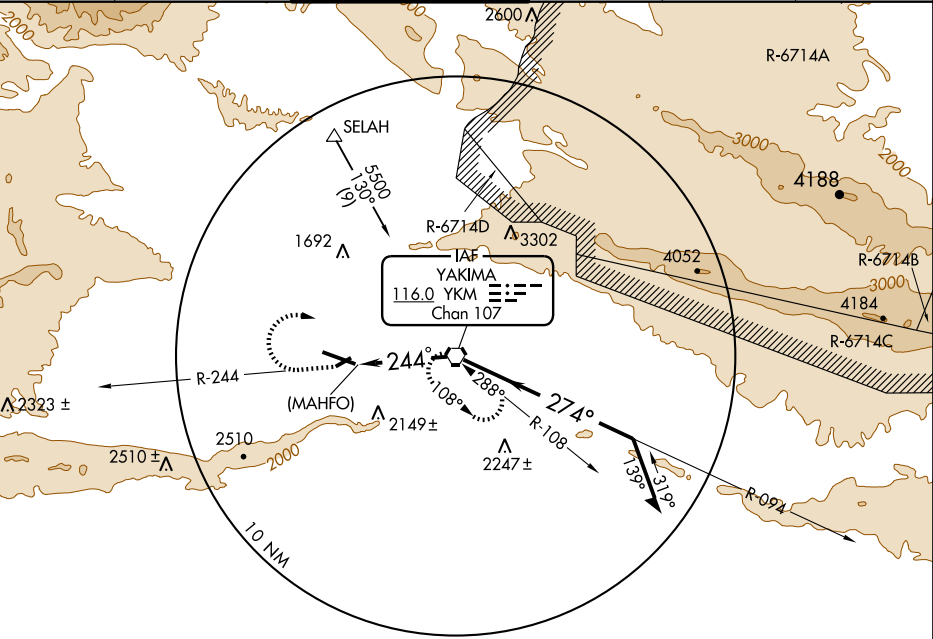
VORTAC YKM	APP CRS	Rwy Idg	N/A
116.0	244°	TDZE	N/A
Chan 107		Apt Elev	1095

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

Circling not authorized South of Rwy 9-27.

MISSED APPROACH: Climb to 2500 via YKM R-244 then climbing right turn to 4000 direct YKM VORTAC and hold.

ATIS	CHINOOK APP CON★	YAKIMA TOWER★	GND CON	CLNC DEL	UNICOM
125.25	123.8 263.15	133.25 (CTAF) 257.8	121.9	121.9	122.95



ELEV 1095

MIRL Rwy 4-22
HIRL Rwy 9-27
REIL Rws 4, 9, and 22

FAF to MAP 3.5 NM					
Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10

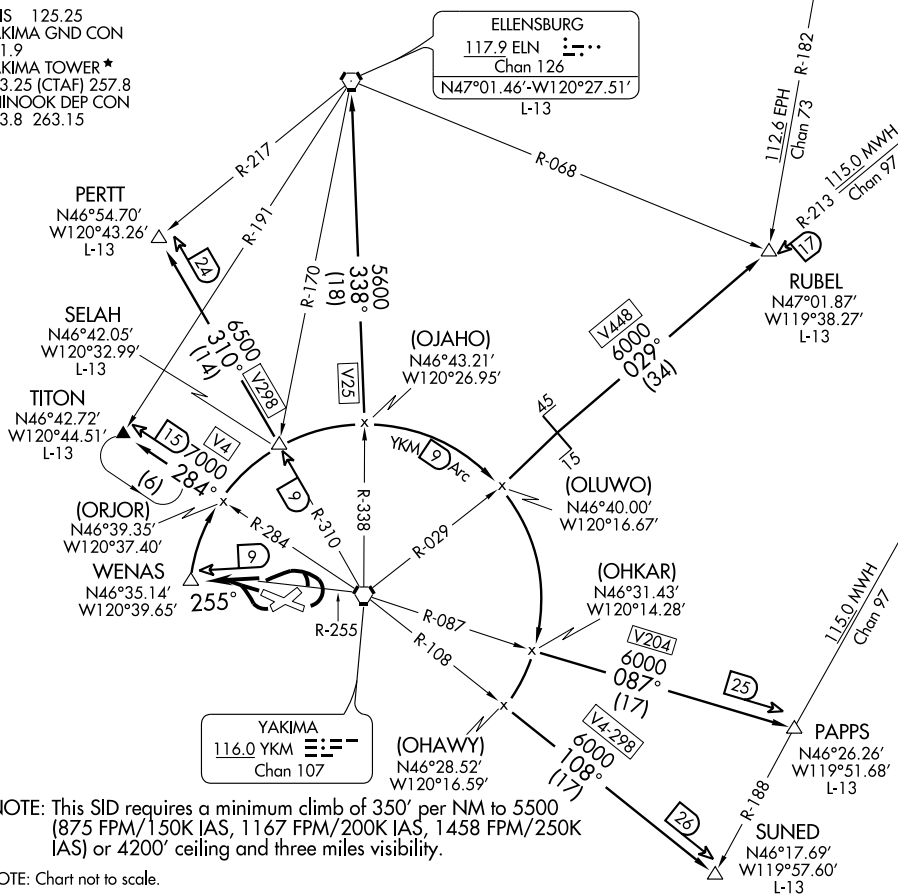
CATEGORY				C		D	
CIRCLING				1780-2 685 (700-2)		1840-2½ 745 (800-2½)	

WENAS FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER ★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left thence...

TAKE-OFF RUNWAY 22: Turn right thence....

TAKE-OFF RUNWAY 27: Climb runway heading thence....

....Intercept and proceed via YKM R-255 to the WENAS DME Fix (YKM 255/9) thence via (assigned transition).

ELLENSBURG TRANSITION (WENAS5.ELN): From over WENAS DME Fix via 9 DME Arc and V25 to ELN VORTAC.

PAPPS TRANSITION (WENAS5.PAPPS): From over WENAS DME Fix via 9 DME Arc and V204 to PAPPS INT.

PERTT TRANSITION (WENAS5.PERTT): From over WENAS DME Fix via 9 DME Arc and V298 to PERTT INT.

RUBEL TRANSITION (WENAS5.RUBEL): From over WENAS DME Fix via 9 DME Arc and V448 to RUBEL INT.

SELAH TRANSITION (WENAS5.SELAH): From over WENAS DME Fix via 9 DME Arc to SELAH INT.

SUNED TRANSITION (WENAS5.SUNED): From over WENAS DME Fix via 9 DME Arc and V4 to SUNED INT.

TITON TRANSITION (WENAS5.TITON): From over WENAS DME Fix via 9 DME Arc and V4 to TITON INT.


NOTE: Climb in holding pattern Southeast of TITON INT, left turns, 284° inbound to 7000 feet before proceeding on course.

YAKIMA FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

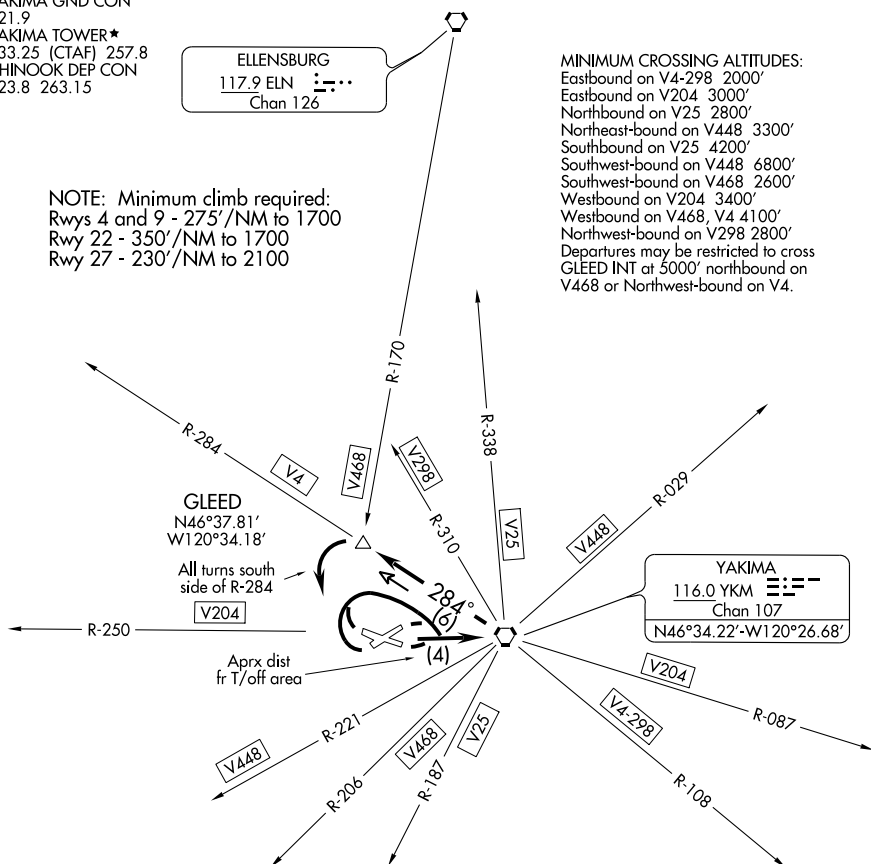
ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15

ELLENSBURG
117.9 ELN 
Chan 126

NOTE: Minimum climb required:
Rwys 4 and 9 - 275'/NM to 1700
Rwy 22 - 350'/NM to 1700
Rwy 27 - 230'/NM to 2100

MINIMUM CROSSING ALTITUDES:

Eastbound on V4-298 2000'
Eastbound on V204 3000'
Northbound on V25 2800'
Northeast-bound on V448 3300'
Southbound on V25 4200'
Southwest-bound on V448 6800'
Southwest-bound on V468 2600'
Westbound on V204 3400'
Westbound on V468, V4 4100'
Northwest-bound on V298 2800'
Departures may be restricted to cross
GLEED INT at 5000' northbound on
V468 or Northwest-bound on V4.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 22 or 27: Turn right, thence....

TAKE-OFF RUNWAY 9: Turn left, thence....

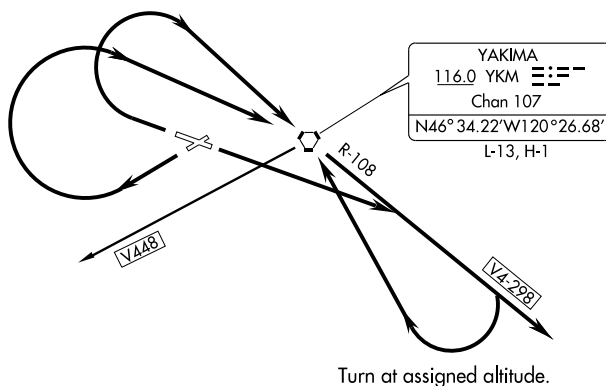
....Climb direct YKM VORTAC. Continue climb on YKM R-284 between the VORTAC and GLEED INT., all turns south of the 284 radial, to cross YKM VORTAC at or above (minimum crossing altitudes). Thence via (assigned route).

ATIS 125.25
 CLNC DEL
 121.9
 YAKIMA GND CON
 121.9
 YAKIMA TOWER ★
 133.25 (CTAF) 257.8
 CHINOOK DEP CON
 123.8 263.15

NOTE: TAKE-OFF MINIMUMS: Rwy 4 not authorized.

Rwy 9: 800-4 or standard with a minimum
 climb of 300' per NM to 5000'.

Rwys 22 and 27: 2500-3 or standard with minimum
 climb of 300' per NM to 5200'.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climb runway heading and outbound YKM R-108. Thence....

TAKE-OFF RUNWAYS 22 and 27: Climbing right turn direct YKM VORTAC and outbound R-108. Thence....

..... Eastbound aircraft V4-298 continue climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (Southwestbound V448 continue minimum climb of 300' per NM to 9500'), then climbing right turn direct YKM VORTAC. All aircraft cross YKM VORTAC at or above MEA or MCA for route of flight.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2½.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2¾.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Category A, 1100-4; Categories B,C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
VOR/DME Rwy 3
VOR Rwy 21

NA when local weather not available.

Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¾**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR or GPS Rwy 7¹**
VOR or GPS Rwy 25²

¹Category D, 800-2¾.

²Categories A,B, 1000-2; Categories C,D,
1000-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷
 VOR-A⁸
 VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

LEWISTON, ID

LEWISTON-NEZ PERCE

COUNTY ILS Rwy 26¹²

RNAV (GPS) Rwy 8³

RNAV (GPS) Rwy 12³

RNAV (GPS) Rwy 26³

VOR Rwy 8⁴

VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7

VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹

VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D, 2200-3.

MCMINNVILLE, OR

MCMINNVILLE MUNI ILS or LOC Rwy 22

RNAV (GPS) Rwy 4

RNAV (GPS) Rwy 22

VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-

MEDFORD ILS or LOC/DME Rwy 14¹²

LOC/DME BC-B²³

RNAV (GPS)-D³

RNAV (GPS) Rwy 14⁴

VOR-A⁵

VOR/DME-C³

VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹

RNAV (GPS) Y Rwy 11²³

RNAV (RNP) Z Rwy 11², 800-2½

VOR/DME or GPS-A, 2000-3

VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹

NDB Rwy 32R²

RNAV (GPS) Rwy 4¹

RNAV (GPS) Rwy 14L¹

RNAV (GPS) Rwy 22¹

VOR Rwy 4²

VOR -1 Rwy 14L²

VOR -3 Rwy 14L²

VOR Rwy 22²

VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31

NA except for operators with approved weather reporting service.

Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON

RGNL ILS or LOC Rwy 4¹

NDB or GPS Rwy 4²

VOR or GPS-A³

VOR/DME or GPS-B⁴

VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½, Category D, 1000-3. LOC, Category C, 900-2½, Category D, 1000-3.

²Category C, 900-2½; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7

NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²

RNAV (GPS) Rwy 17²

RNAV (GPS) Rwy 35²

VOR-A²³

VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,

700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A
 NA when local weather not available.
 Category C, 800-2¼; Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME **ALTERNATE MINIMUMS**
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²

¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD NDB or GPS-A¹
 VOR or GPS Rwy 22,1000-3²

¹Category D, 1000-3.

²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16¹
RNAV (GPS) Z Rwy 16²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

²Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON

COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER

COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

McNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL

AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY

INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN

COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.

Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2½.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

⁴Category D, 800-2½.

RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD

RADAR - 124.55 263.075 ▽ ▲ NA

	RWY	GS/TCH/RP	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (09155 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4 ▽ ▲ NA

	RWY	GS/TCH/RP	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/947	ABCD	499/40	200	(200-¾)
	33 ²	3.0°/39/730	ABCD	500-¾	200	(200-¾)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:


Rwy 15: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 700, then climbing left turn to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 700, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GR LOM and hold NW, RT, 147° inbound (ADF REQUIRED).

LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS

KLAMATH FALLS (KLMT), (KINGSLEY FIELD), OR (09071 USAF)

RADAR - (E) ¹Call Kingsley GCA 123.675 233.7 119.175x 317.7x 225.4x 256.7x  ELEV 4095

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ²	32 ³ 14 ⁴	3.0°/48/909 3.0°/47/905	ABCDE ABCDE	4345/24 4391-¾	250 300	(300-½) (300-¾)
ASR	32 ⁵		AB C D E	4720/24 4720/60 4720-1½ 4720-1¾	625 625 625 625	(700-½) (700-1¼) (700-1½) (700-1¾)
	14 ⁶		AB C D E	4800-¾ 4800-1¾ 4800-2 4800-2½	709 709 709 709	(800-¾) (800-1¾) (800-2) (800-2½)
CIR ⁷	All Rwy		A B C D E	4820-1 5020-1¼ 5020-2¾ 5020-3 5620-3	725 925 925 925 1525	(800-1) (1000-1¼) (1000-2¾) (1000-3) (1600-3)



¹MILITARY USE ONLY. Opr 1600-0000Z++ Mon-Fri. ²No-NOTAM preventive maint sked; 1600-1700Z++ Thu. ³When ALS inop, increase CAT AB RVR to 40, vis to ¾ mile, CAT CDE RVR to 50, vis to 1 mile. ⁴When ALS inop, increase vis to 1 mile. ⁵When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to 1¾ miles, CAT D vis to 2 miles, CAT E vis to 2½ miles. ⁶When ALS inop, increase CAT AB vis to 1 mile, CAT C to 2 miles, CAT D to 2½ miles, CAT E to 2½ miles. ⁷CAT E circling NA from Rwy 14 clockwise to Rwy 32. Circling to Rwy 7/25 Not Authorized at night all CATs.

OAK HARBOR (OKH), WA

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193

A J EISENBERG

RADAR - 118.2 285.65   NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATh/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.



ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway,

163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left
Rwys 10L, 10R, turn right. Climb on BOI R-214 within
20 NM to cross BOI VORTAC at or above MEA/MCA
for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min.
climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure
end of runway at or above 35' AGL.

DEPARTURE PROCEDURE: **All runways**, climb direct
BURLEY (BYI) VOR/DME. Continue climb on R-305
within 10 miles to cross BYI VOR/DME: R-024 CW
R-054 at or above 5500; R-055 CW R-240 at or above
8000; R-241 CW R-023 at or above 5900.

NOTE: **Rwy 2**, bridge 252' from departure end of runway,
513' left of centerline, 110' AGL/4195' MSL. Stack 2205'
from departure end of runway, 857' right of centerline,
79' AGL/4236' MSL. Elevator 4092' from departure end
of runway, 297' right of centerline, 133' AGL/4283' MSL.
Rwy 20, antenna 523' from departure end of runway, 338'
right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree
630' from departure end of runway, 521' right of
centerline, 41' AGL/4215' MSL. Grain elevator 3106'
from departure end of runway, 163' left of centerline,
137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a
min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or
std. with a min. climb of 245' per NM to 2300. **Rwy 22**,
1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right
heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB
to cross BVS at or above 4500. Aircraft departing on
BVS R-145 CW R-330 climb on course. All others
continue climbing in BVS holding pattern (NW, right
turns 113° inbound) to cross BVS at or above 6800
before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway,
426' left of centerline, 100' AGL/212' MSL. Light pole
1489' from departure end of runway, 136' left of
centerline 35' AGL/137' MSL. Bush 126' from departure
end of runway, 430' right of centerline, 20' AGL/101'
MSL. Building 2925' from departure end of runway, 130'
left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CWR-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****ORIG 09295 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR**MAHLON SWEET FIELD**

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY**EVANSTON-UINTA COUNTY BURNS FIELD**

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA**SNOHOMISH COUNTY (PAINE FIELD)**

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT**FORT BENTON**

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY**FORT BRIDGER**

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA**FRIDAY HARBOR**

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY**GILLETTE-CAMPBELL COUNTY (GCC)**

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

* Or standard with minimum climb of 430/NM to 500.

** Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3, 7**, turn left;

Rwys 21, 25, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.



HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL

DEPARTURE PROCEDURE: **All aircraft** departing
IDA

R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.

NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL.

Rwy 17, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

**JEROME, ID**

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1¼ or std. w/ min. climb of 435' per NM to 4700.DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL.

Rwy 27, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



LAUREL, MT**LAUREL MUNI**TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.DEPARTURE PROCEDURE: **Rwy 22**, turn left.**All aircraft** climb direct BIL VORTAC.**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left

direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.**Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL.

Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.**Rwy 15**, use EYSE RNAV DEPARTURE.**LIVINGSTON, MT****MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.**MADRAS, OR****MADRAS MUNI (S33)****ORIG-A 09043 (FAA)**TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...

... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.

MC CALL, ID**MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.**MC CHORD AFB (KTCM)****TACOMA, WA 09127**DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/ min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/ min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/ min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/ min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windssock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.
All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL.

Rwy 29, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 6 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. w/ min. climb of 270' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 7500 via heading 240 and PIH R-269 to SICOY/PIH 10 DME. **Rwys 17, 21**, climbing right turn to 7500 via PIH R-269 to SICOY/PIH 10 DME. **Rwy 35**, climbing left turn to 7500 via heading 230 and PIH R-269 to SICOY/PIH 10 DME.

DME REQUIRED.

NOTE: **Rwy 3**, trees beginning 3132' from departure end of runway, 562' left of centerline, up to 100' AGL/4549' MSL. Rod on obstruction light 978' from departure end of runway, 759' right of centerline, 37' AGL/4486' MSL.

Rwy 17, transmission tower 1.19 NM from departure end of runway, 2395' left of centerline, 124' AGL/4693' MSL. Trees beginning 1.63 NM from departure end of runway, 2642' left of centerline, up to 100' AGL/4759' MSL. Fence 112' from departure end of runway, 416' right of centerline, 4' AGL/ 4453' MSL. Bush 30' from departure end of runway, 261' right of centerline, 6' AGL/4445' MSL. Fence 208' from departure end of runway, 421' right of centerline, 10' AGL/4449' MSL. **Rwy 21**, antenna 543' from departure end of runway, 309' left of centerline, 17' AGL/4466' MSL. Obstruction light 543' from departure end of runway, 286' left of centerline, 13' AGL/ 4462' MSL. **Rwy 35**, electrical equipment 197' from departure end of runway, 248' left of centerline, 10' AGL/ 4454' MSL.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179' MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND, OR (CON'T)

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 3,300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28, NA**.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKWR-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 6 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 400' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, Climb heading 154° to 700, then climbing right turn direct SEA VORTAC, then..., or for climb in visual conditions: cross Renton Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, then...,

Rwy 34, Climb heading 334° to 700, then climbing left turn direct SEA VORTAC then..., ...Climb in SEA VORTAC holding pattern (E, LT, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, Trees, towers, lights and blast shield beginning 286' from departure end of runway, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from departure end of runway, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from departure end of runway, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from departure end of runway, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/min. climb of 310' per NM to 700. **Rwy 19**, std. w/min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence...**Rwy 8**, climbing right turn direct PSC VOR/DME, thence...**Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence...**Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence... climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMD T 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.



SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions.

Rwy 23, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.



SHERIDAN, WY

SHERIDAN COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT

SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA

HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7,20,25,34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25,30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25,30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to ZEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

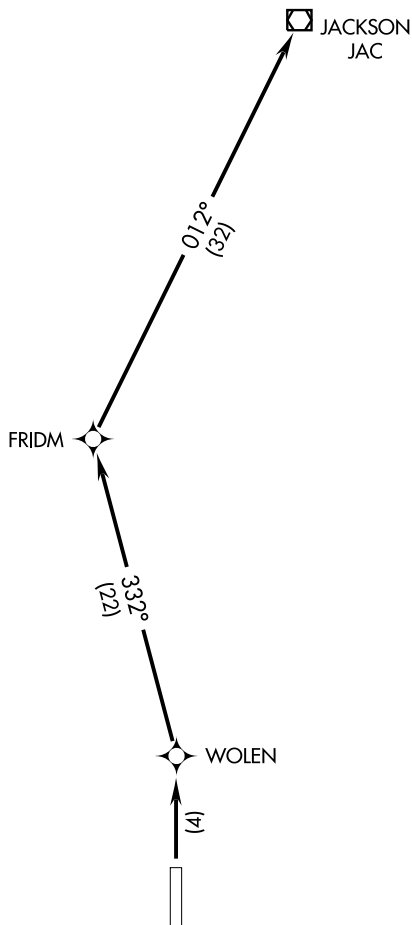
YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

AFTON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



NOTE: Chart not to scale.

NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS

Rwy 34: Standard with minimum climb of 330 feet per NM to 10700.

Rwy 16: NA- Obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Tree 1054 feet from DER, 605 feet right of centerline, 40' AGL/6241' MSL.

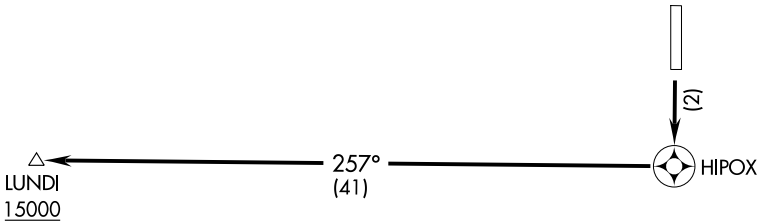
Tree 1703 feet from DER, 235 feet right of centerline, 40' AGL/6259' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 13000 direct WOLEN, and via 332° track to FRIDM, then via 012° track to JAC VOR/DME.

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



TAKE-OFF MINIMUMS

Rwy 16: Standard with minimum climb of 515 feet per NM to 10400.
Rwy 34: NA- obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Tree 1807 feet from DER, 298 feet right of centerline, 40' AGL/6277' MSL.

- NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 15000 direct HIPOX and right turn via 257° track to LUNDI.

APP CRS	Rwy Idg	7023
156°	TDZE	6188
	Apt Elev	6221

RNAV (GPS) RWY 16

AFTON MUNI (AFO)

AFTON MUNI (AFO)



DME/DME RNP -0.3 NA.

If local altimeter setting not received, procedure NA.
Circling NA east of Rwy 16-34.

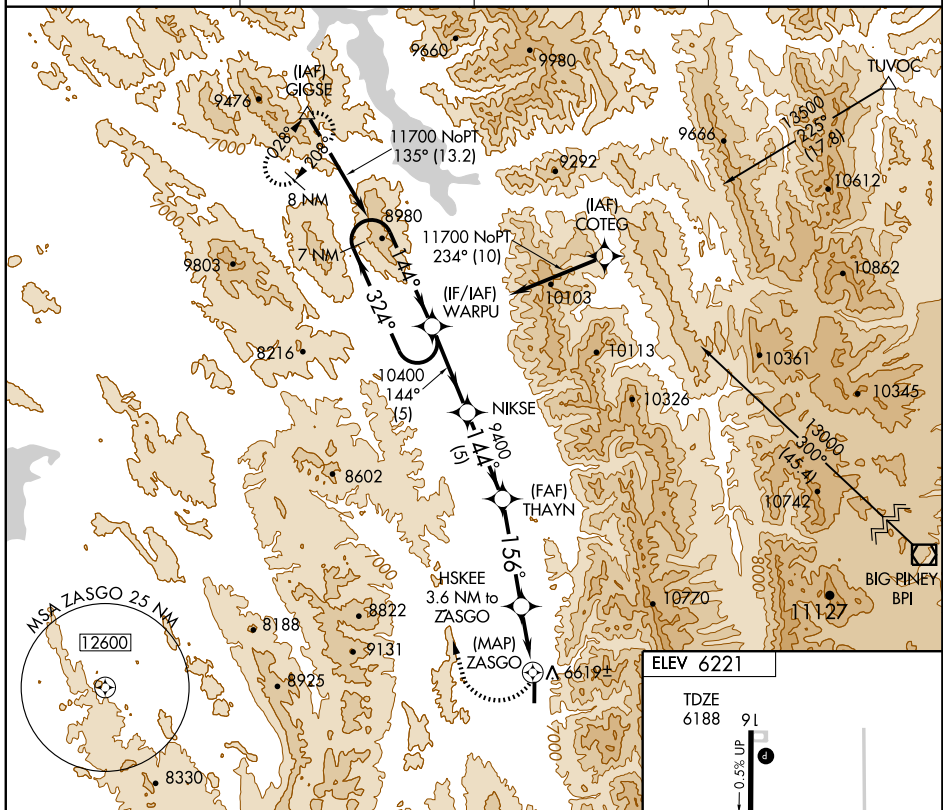
MISSED APPROACH: Climbing right turn to 11700 direct GIGSE and hold.

AWOS-3
119.025

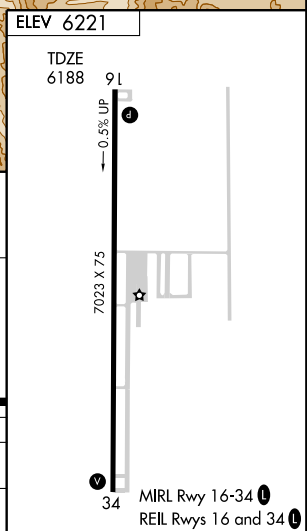
SALT LAKE CENTER
128.35 381.6

CASPER RADIO
122.3

UNICOM
122.8 (CTAF) **L**





NW-1. 22 OCT 2009 to 19 NOV 2009

[illegible]

APP CRS	Rwy Idg	7023
346°	TDZE	6221
	Apt Elev	6221

RNAV (GPS) RWY 34

AFTON MUNI (AFO)

	DME/DME RNP- 0.3 NA.
 NA	<p>Circling NA east of Rwy 16-34</p> <p>Visibility reduction by helicopters NA.</p> <p>If local altimeter setting not received, procedure NA.</p>

MISSED APPROACH: Climbing left turn to 11500 direct IVAYU and hold.

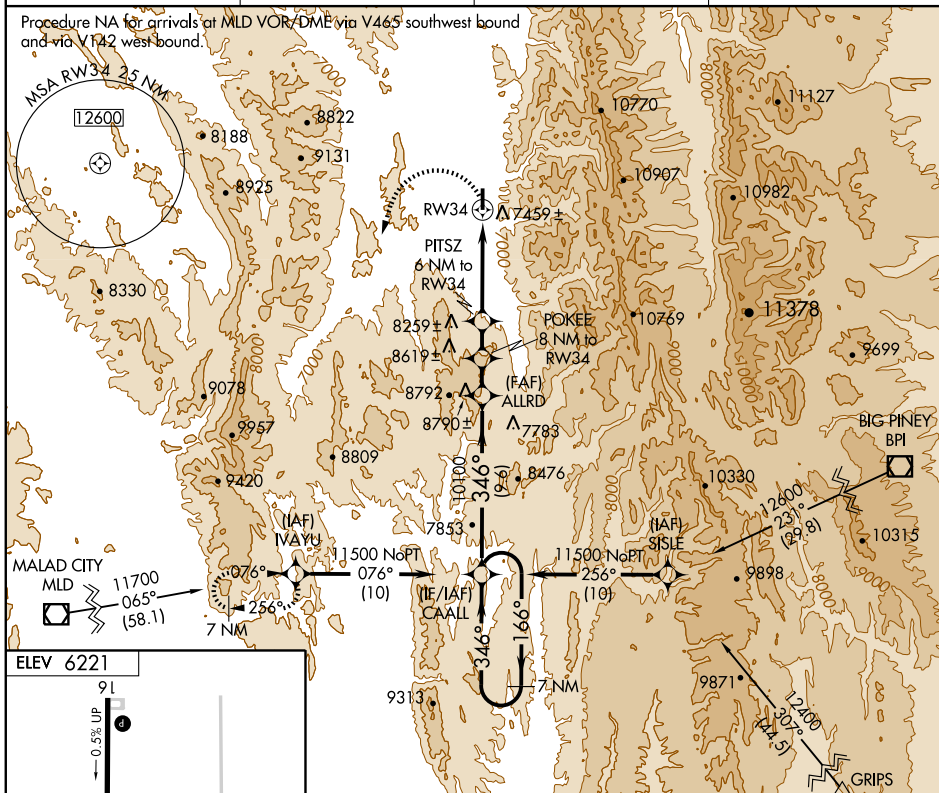
AWOS-3
119.025

SALT LAKE CENTER
128.35 381.6

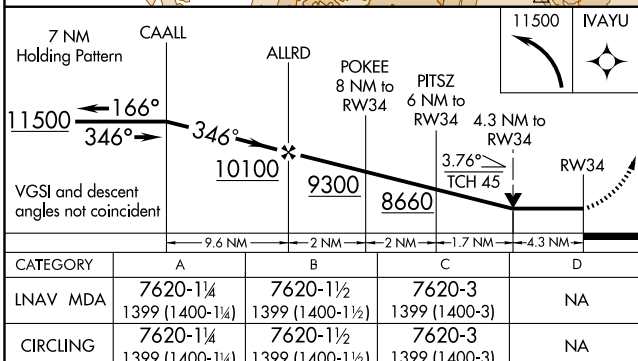
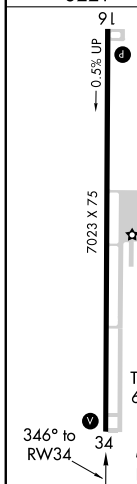
CASPER RADIO
122.3

UNICOM
122.8 (CTAF) **L**

Procedure NA for arrivals at MLD VOR/DME via V465 southwest bound and via V142 west bound.



ELEV 6221



GPS RWY 31

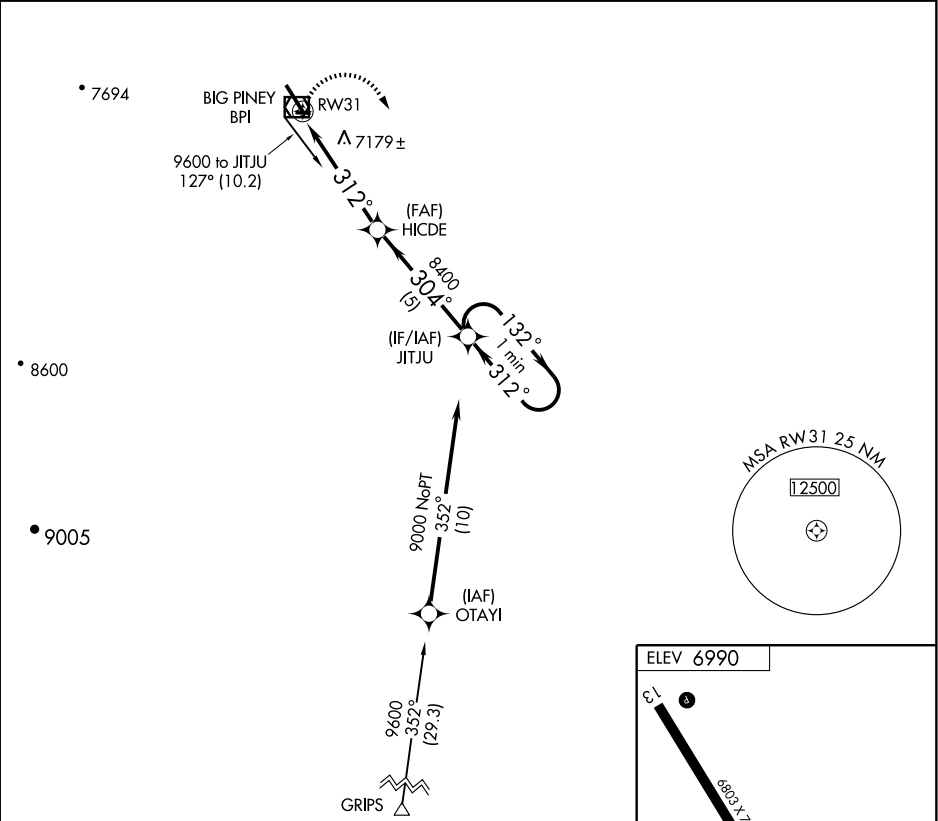
BIG PINEY/ MILEY MEMORIAL FIELD (BPI)









APP CRS	Rwy Idg	6803
312°	TDZE	6965
	Apt Elev	6990

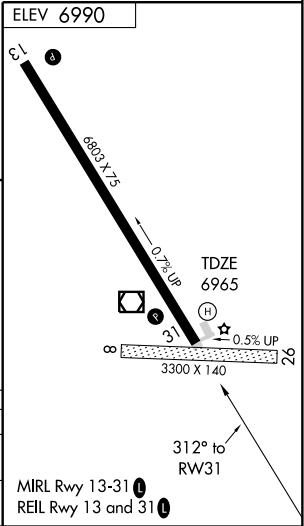
NA

MISSED APPROACH: Climbing right turn to 9000 direct JITJU and hold.

ASOS 135.225	CASPER RADIO 122.3	UNICOM 122.8 (CTAF)	122.7
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<div>9000</div> <div></div>		<div>JITJU</div> <div></div>		VGSI and descent angles not coincident.		<div>JITJU</div> <div></div>		One Minute Holding Pattern		
				HICDE						
<div></div> <div>RW31</div>		<div></div> <div>TCH 30</div>		<div></div> <div>2.69°</div>		<div></div> <div>304°</div>		<div></div> <div>132°</div>		
				312°		8400		312°		
		1.6 NM		3.4 NM		5 NM				
CATEGORY	A			B			C		D	
S-31	7440-1			475 (500-1)			7440-1¼ 475 (500-1¼)		7440-1½ 475 (500-1½)	
CIRCLING	7460-1 470 (500-1)			7560-1 570 (600-1)			7560-1½ 570 (600-1½)		7560-2 570 (600-2)	



VOR/DME BPI <u>116.5</u> Chan 112	APP CRS 298°	Rwy Idg 6803 TDZE 6965 Apt Elev 6990
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VOR RWY 31
BIG PINEY/MILEY MEMORIAL FIELD (BPI)



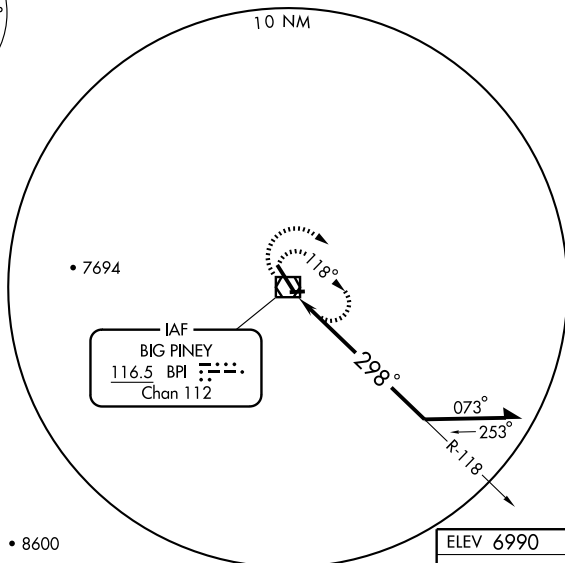
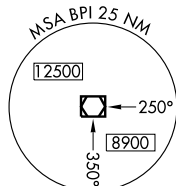
MISSED APPROACH: Climbing right turn to 10000 on BPI R-118, then return to BPI VOR/DME and hold.


ASOS
135,225

CASPER RADIO
122.3

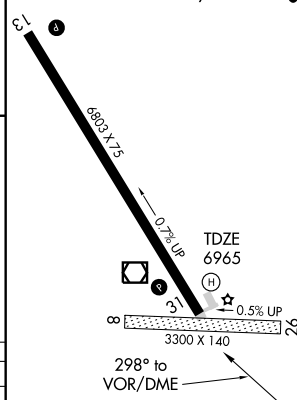
UNICOM
122.8 (CTAF)

122.7 L



10000 BPI R-118	BPI  116.5
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ELEV 6990	MIRL Rwy 13-31 L REIL Rwy 13 and 31 L
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CATEGORY	A	B	C	D
S-31	7680-1	715 (700-1)	7680-2 715 (700-2)	7680-2¼ 715 (700-2¼)
CIRCLING	7680-1	690 (700-1)	7680-2 690 (700-2)	7680-2¼ 690 (700-2¼)

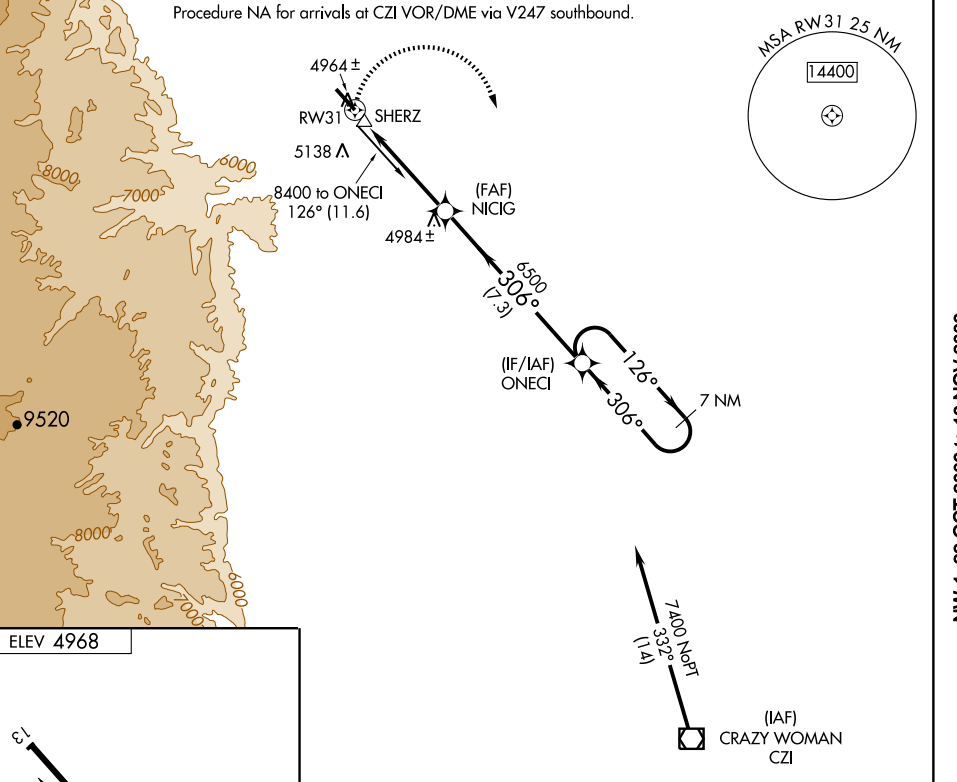
Knots	60	90	120	150	180
Min:Sec					

APP CRS	Rwy Idg	6143
306°	TDZE	4937
	Apt Elev	4968

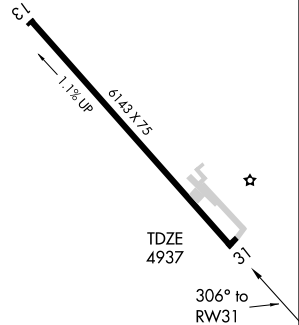
Visibility reduction by helicopters NA.
 If local altimeter setting not received, use Sheridan altimeter setting and increase all MDAs 600 feet.
 DME/DME RNP- 0.3 NA. Procedure NA at night.



MISSED APPROACH: Climbing right turn to 7400 direct ONECI and hold.



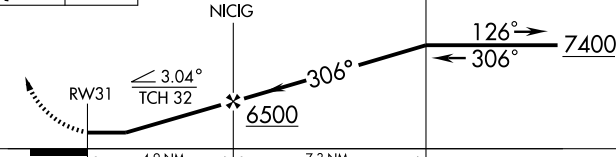
ASOS 135.425	CASPER RADIO 122.025	UNICOM 122.8 (CTAF) 
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ELEV 4968



REIL Rwy 31 
 MIRL Rwy 13-31 

		7400 ONECI 7 NM Holding Pattern			
					
CATEGORY	A	B	C	D	
LNAV MDA	5340-1	403 (400-1)	5340-1¼	403 (400-1¼)	
CIRCLING	5440-1 472 (500-1)	5520-1 552 (600-1)	5540-1½ 572 (600-1½)	5660-2¼ 692 (700-2¼)	

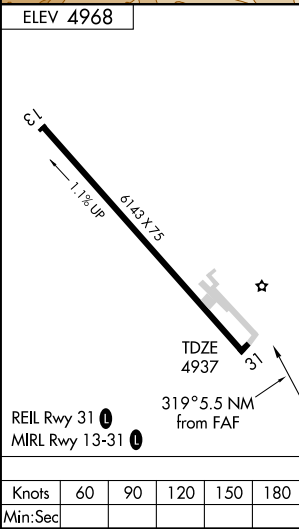
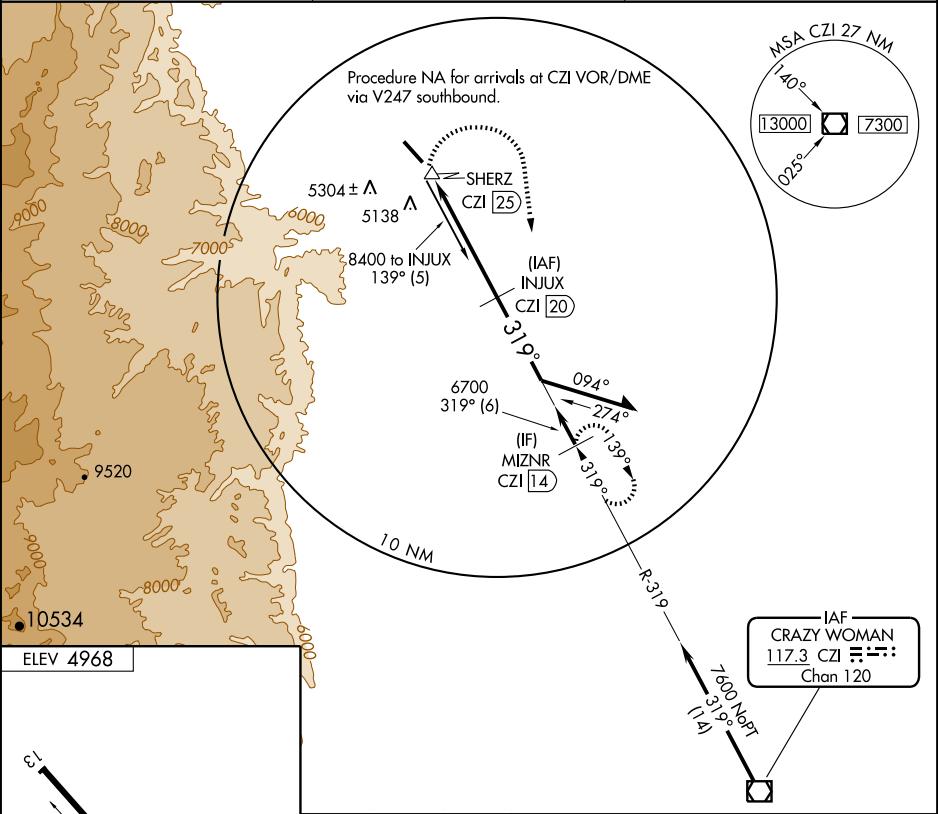
VOR/DME CZI	APP CRS	Rwy Idg	6143
117.3	319°	TDZE	4937
Chan 120		Apt Elev	4968




VOR/DME RWY 31
BUFFALO/JOHNSON COUNTY (BYG)

Visibility reduction by helicopters NA.
If local altimeter setting not received, use Sheridan altimeter setting and increase all MDAs 600 feet.
When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climbing right turn to 7600 via heading 160° and CZI VOR/DME R-319 to MIZNR/14 DME and hold.

ASOS 135.425	CASPER RADIO 122.025	UNICOM 122.8 (CTAF)
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	<div>CZI R-319 117.3</div>	<div>MIZNR CZI 14</div>	<div>INJUX CZI 20</div> <div>8100</div>	<div>Remain within 10 NM</div>
	<div>ZEDRI CZI 25.2</div>	<div>≤ 3.02° TCH 32</div>	<div>6700</div>	<div>7600</div>
	<div>5.1 NM</div>			
CATEGORY	A	B	C	D
S-31	5680-1 743 (800-1)	5680-1¼ 743 (800-1¼)	5680-2¼ 743 (800-2¼)	5680-2½ 743 (800-2½)
CIRCLING	5680-1 712 (800-1)	5680-1¼ 712 (800-1¼)	5680-2¼ 712 (800-2¼)	5680-2½ 712 (800-2½)
KNOTS	60	90	120	150
MIN:SEC				

NW-1. 22 OCT 2009 to 19 NOV 2009

ALCOS THREE DEPARTURE

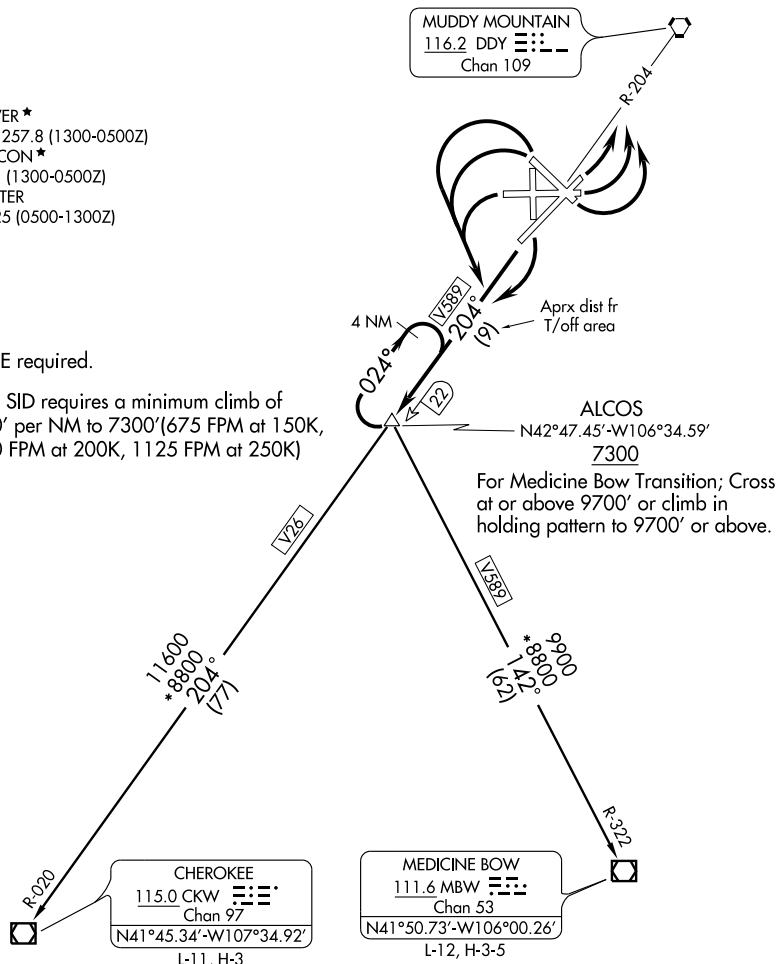
SL-72 (FAA)

CASPER/NATRONA COUNTY INTL (CPR)
CASPER, WYOMING

ATIS 126.15
CLNC DEL
121.9 257.8
GND CON
121.9 257.8
CASPER TOWER ★
118.3 (CTAF) 257.8 (1300-0500Z)
CASPER DEP CON ★
120.65 354.1 (1300-0500Z)
DENVER CENTER
135.6 363.025 (0500-1300Z)

NOTE: DME required.

NOTE: This SID requires a minimum climb of
270' per NM to 7300' (675 FPM at 150K,
900 FPM at 200K, 1125 FPM at 250K)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Turn right, thence. . .

ALL OTHER RUNWAYS: Turn left, thence. . .

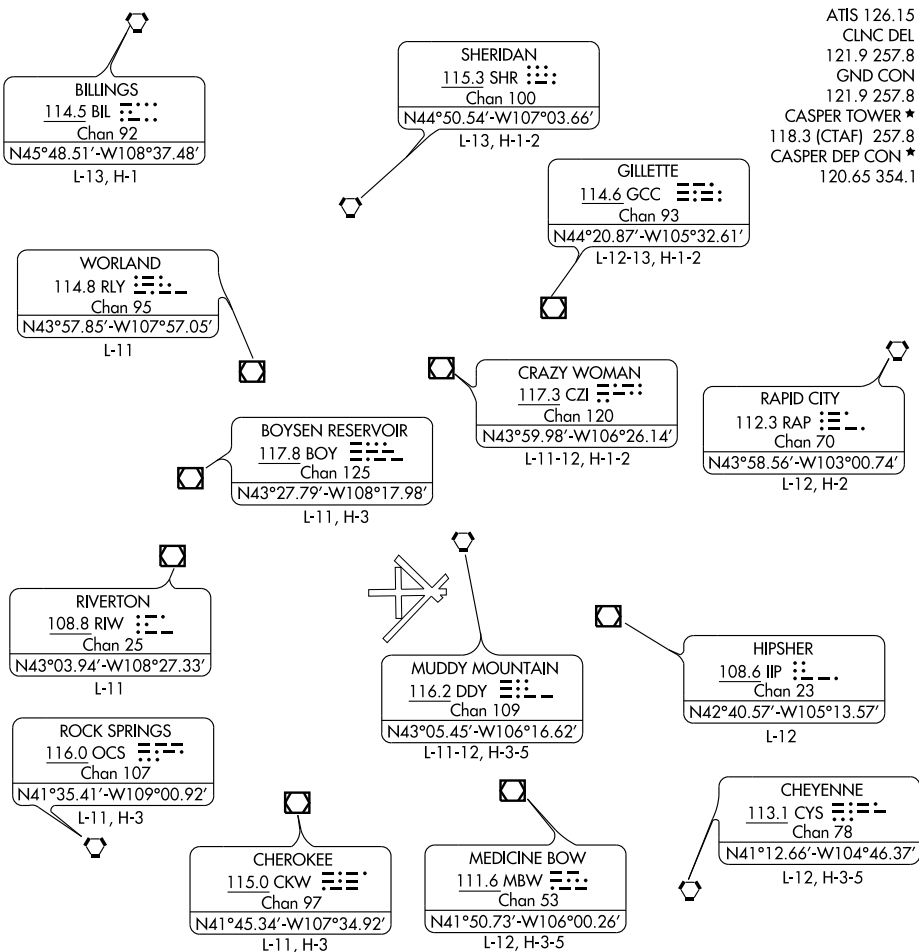
. . . climb via DDY R-204 to cross ALCOS INT at or above 7300', then via (transition) or (assigned route).

CHEROKEE TRANSITION (ALCOS3.CKW): Via DDY R-204 and V26 to CKW VOR/DME.

MEDICINE BOW TRANSITION (ALCOS3.MBW): Via MBW R-322 to MBW VOR/DME.
Cross ALCOS INT at or above 9700' or climb in holding pattern to 9700' or above.

CASPER ONE DEPARTURE

SL-72 (FAA)

CASPER/NATRONA COUNTY INTL (CPR)
CASPER, WYOMING

NOTE: Aircraft departing Runways 12 and 17 will be issued departure instructions by clearance delivery/ground control.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION


All aircraft fly runway heading for radar vectors to filed/assigned fix/route. Maintain 14,000 feet or assigned lower altitude. Expect further clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure, maintain runway heading until 7,000 feet, then climb to filed altitude via direct DDY VORTAC, then via assigned fix/route. Runways 3 and 8 turn left to DDY VORTAC, all others turn right to DDY VORTAC.

LOC I-SYD	APP CRS	Rwy Idg	10165
111.3	032°	TDZE	5328
		Apt Elev	5350

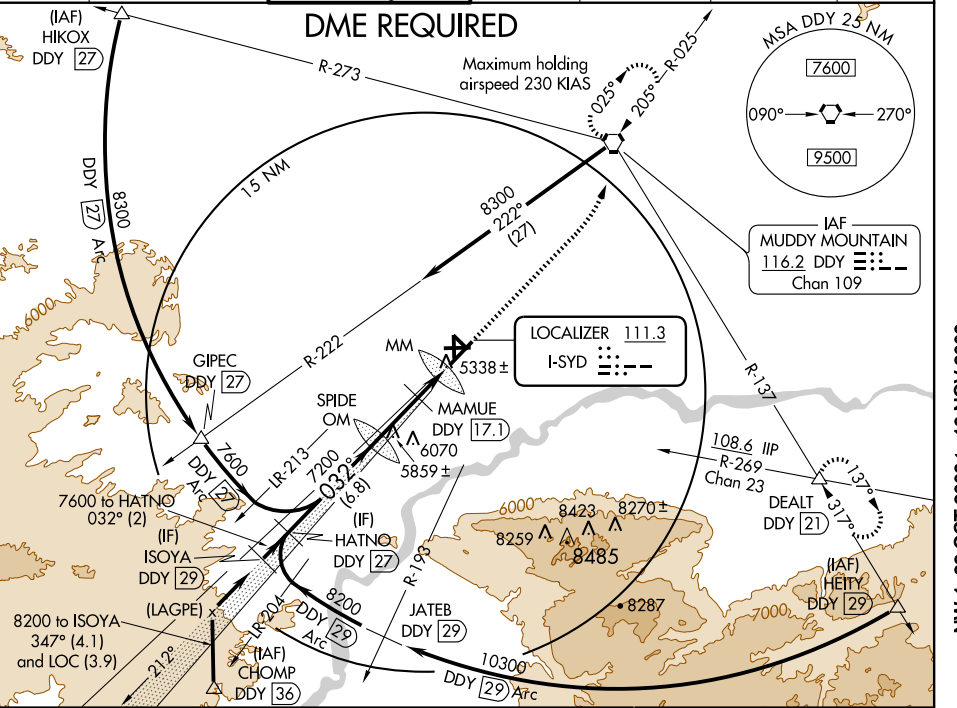
⚠ For inoperative MALS, increase S-ILS-3 Cat E visibility to RVR 4000, S-LOC-3 Cat E visibility to 3. MAMUE FIX MINIMUMS: For inoperative MALS, increase S-LOC-3 Cats D and E visibility to 1. DME from DDY VORTAC, simultaneous reception of I-SYD and DDY DME required. # RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS

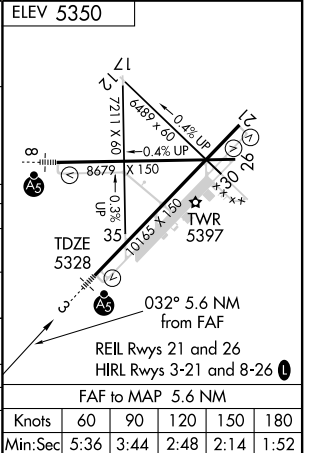


MISSED APPROACH: Climb to 7500 then left turn direct DDY VORTAC and hold. (TACAN aircraft continue climb to 12000 via DDY VORTAC R-137 to DEALT/DDY 21 DME and hold SE, right turn, 317° inbound).

ATIS	CASPER APP CON ★	CASPER TOWER ★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 257.8	121.9	121.9 257.8	122.4	122.95



Procedure		ISOYA	HATNO	SPIDE OM	MAMUE	MM	DDY
Turn		DDY 29	DDY 27		DDY 17.1		116.2
NA							
8200		032°	7600	7200	*6140		
GS 3.00°							
TCH 53							
		2 NM	6.8 NM	3.2 NM	1.9 NM	0.5	
CATEGORY	A	B	C	D	E		
S-ILS 3	# 5528/24 200 (200-½)				5528/24 200 (200-½)		
S-LOC 3	6140/24 812 (800-½)	6140/40 812 (800-¾)	6140-2 812 (800-2)	6140-2 ½ 812 (800-2 ¼)	6140-2 ½ 812 (800-2 ½)		
CIRCLING	6140-1 790 (800-1)	6140-1 ¼ 790 (800-1 ¼)	6140-2 ½ 790 (800-2 ½)	6140-2 ¾ 790 (800-2 ¾)	6220-3 870 (900-3)		
MAMUE FIX MINIMUMS							
S-LOC 3	5600/24 272 (300-½)		5600/40 272 (300-¾)				
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1 ½ 450 (500-1 ½)	5900-2 550 (600-2)	6220-3 870 (900-3)		



NW-1, 22 OCT 2009 to 19 NOV 2009

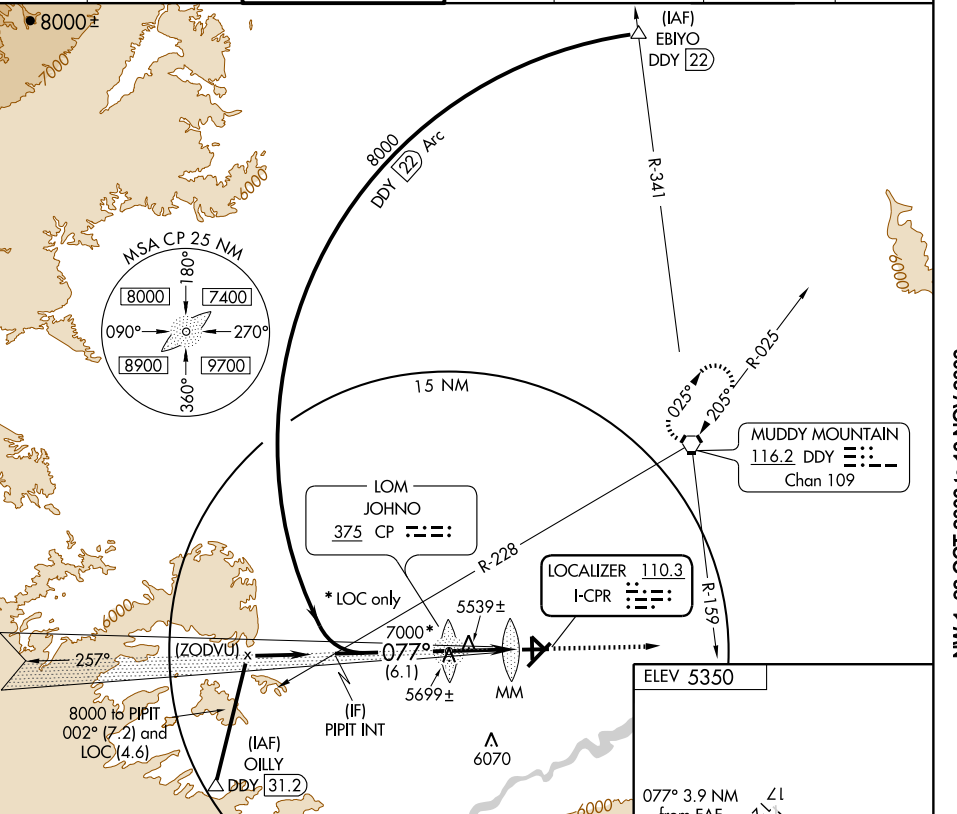
LOC I-CPR	APP CRS	Rwy Idg TDZE	8679 5344
110.3	077°	Apt Elev	5350

Inoperative table does not apply to S-ILS 8.

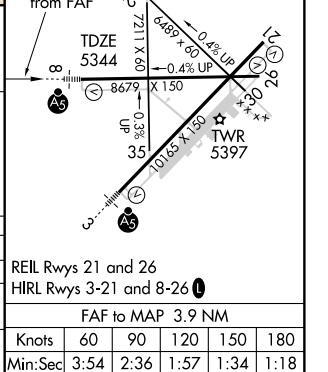
MALSR

MISSED APPROACH: Climb to 7700 via heading 077° and DDY VORTAC R-159 to DDY VORTAC and hold.

ATIS	CASPER APP CON	CASPER TOWER	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



Procedure Turn NA	PIPT INT	LOM	7700	DDY R-159	DDY 116.2
GS 3.00° TCH 102	8000	7000	6700	Glide slope unusable above 7100.	
* LOC only		MM			
6.1 NM		3.3 NM	0.6		
CATEGORY	A	B	C	D	
S-ILS 8	5644/40 300 (300-3/4)			NA	
S-LOC 8	5800/24 456 (500-1/2)		5800/40 456 (500-3/4)	NA	
CIRCLING	5800-1 450 (500-1)		5800-1 1/2 450 (500-1 1/2)	NA	



NW-1. 22 OCT 2009 to 19 NOV 2009

WAAS CH 73006 W03A	APP CRS 032°	Rwy Idg TDZE Apt Elev 10165 5328 5350
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RNAV (GPS) RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

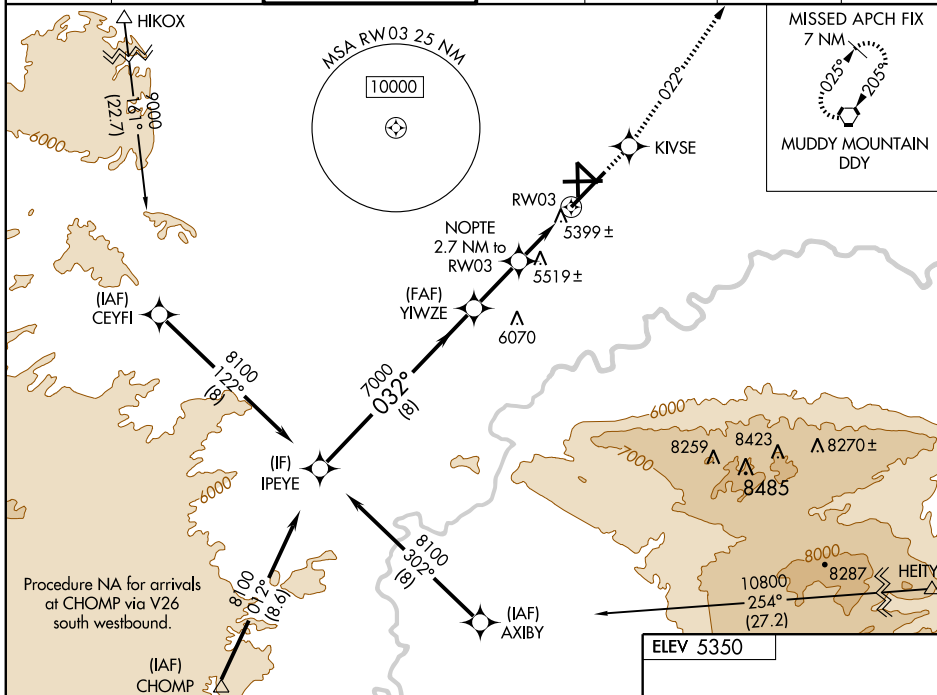
▼ For inoperative MALSR, increase LPV all Cats visibility to 1 mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.




MALSR

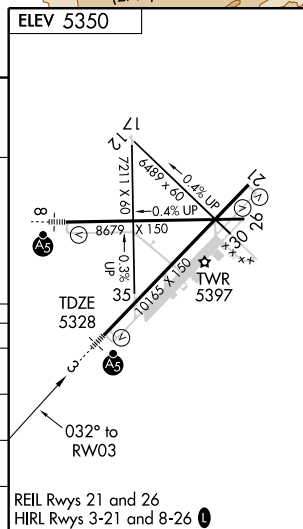


MISSED APPROACH: Climb to 7500
direct KIVSE and via track 022° to
DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON* 120.65 354.1	CASPER TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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IPEYE		Procedure Turn NA		YIWZE	NOPT 2.7 NM to RW03	7500 ↑		KIVSE 	track 022°	DDY 
8100		032°		7000	*6240	*1.3 NM to RW03		*LNAV only		
GS 3.00° TCH 52		8 NM		2.3 NM		1.4 NM		1.3 NM		
CATEGORY	A		B		C		D			
LPV DA			5643/24		315 (300-½)					
LNAV/ VNAV DA			5691/40		363 (400-¾)					
LNAV MDA	5780/24		452 (500-½)		5780/40 452 (500-¾)		5780/50 452 (500-1)			
CIRCLING	5780-1 430 (500-1)		5800-1 450 (500-1)		5800-1½ 450 (500-1½)		5900-2 550 (600-2)			

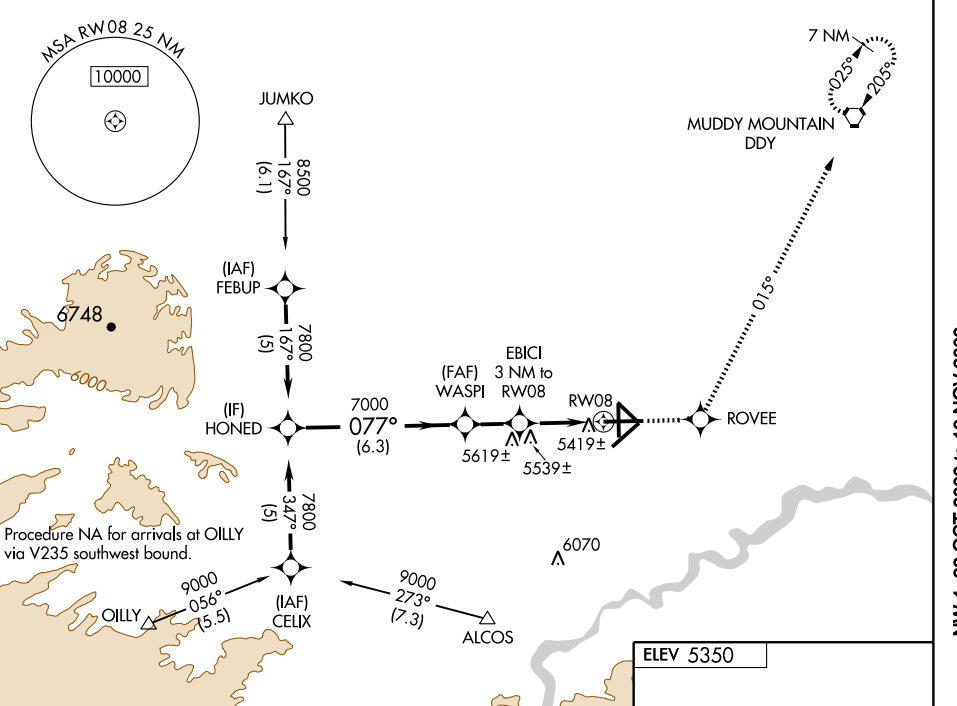


▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

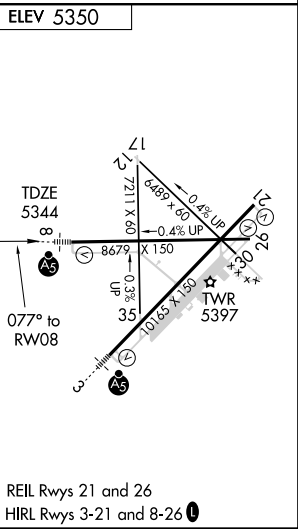
MALSR

MISSED APPROACH: Climb to 7700 direct ROVEE and via track 015° to DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON * 120.65 354.1	CASPER TOWER * 118.3 (CTAF) 0257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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Procedure Turn NA	HONED		VGSi and RNAV glidepath not coincident.		7700	ROVEE	track 015°	DDY
	7800		WASPI		EBICI 3 NM to RW08	*1.3 NM to RW08	RW08	
GS 3.00° TCH 55		077°		7000	*LNAV only			
		6.3 NM		2 NM	1.7 NM	1.3 NM		
CATEGORY	A		B		C		D	
LPV DA	5594/24		250 (300-½)					
LNAV/ VNAV DA	5689/40		345 (400-¾)					
LNAV MDA	5800/24	456 (500-½)	5800/40 456 (500-¾)		5800/50 456 (500-1)			
CIRCLING	5800-1	450 (500-1)	5800-1½ 450 (500-1½)		5900-2 550 (600-2)			



WAAS
CH **78112**
W26A

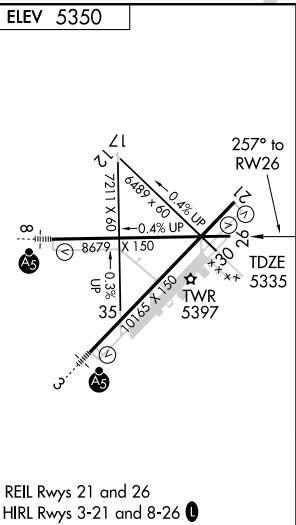
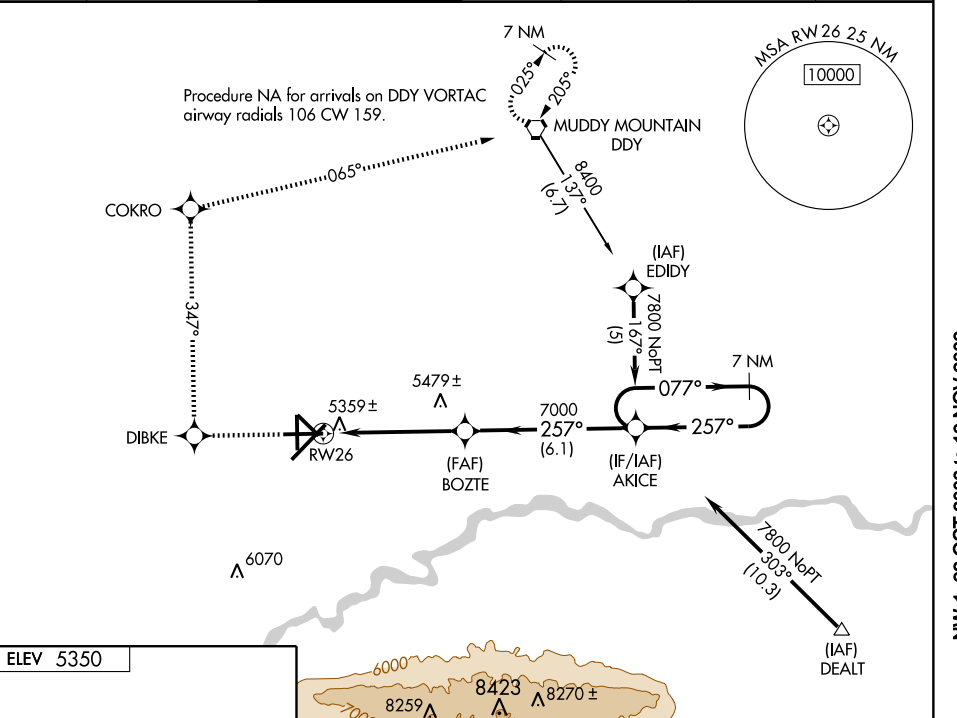
APP CRS
257°

Rwy Idg
TDZE
Apt Elev
8679
5335
5350

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8400 direct DIBKE and right turn via track 347° to COKRO and via track 065° to DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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8400	DIBKE	COKRO	DDY	AKICE	7 NM Holding Pattern
↑	track 347°	track 065°			
*LNAV only					
*1.2 NM to RW26					
RW26					
1.2 NM 3.9 NM 6.1 NM					
BOZTE					
7000					
257° 077° 7800					
GS 3.00° TCH 40					
CATEGORY	A	B	C	D	
LPV DA	5585-1 250 (300-1)				
LNAV/VNAV DA	5629-1 294 (300-1)				
LNAV MDA	5740-1 405 (400-1)		5740-1¼ 405 (400-1¼)		
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1½ 450 (500-1½)	5900-2 550 (600-2)	

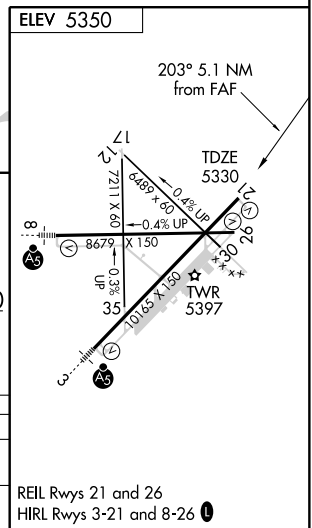
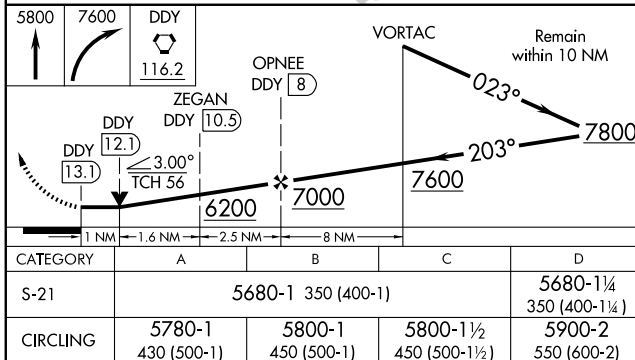
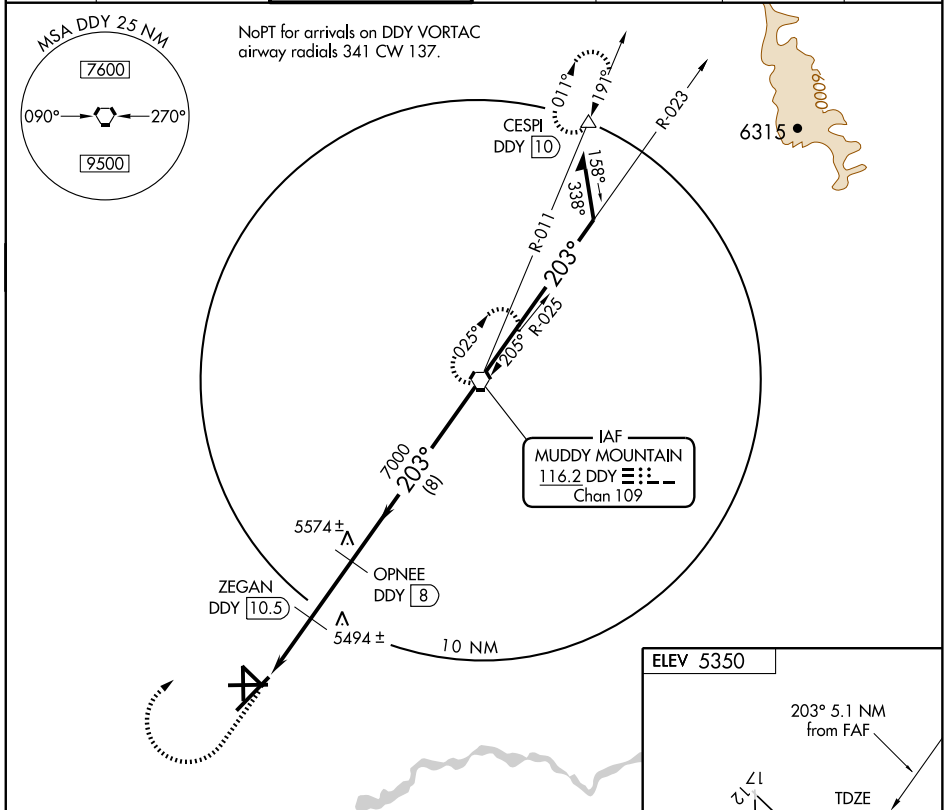
VORTAC DDY <u>116.2</u> Chan 109	APP CRS 203°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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VOR/DME or TACAN RWY 21

CASPER/NATRONA COUNTY INTL (CPR)

MISSED APPROACH: Climb to 5800, then climbing right turn to 7600 direct DDY VORTAC and hold (TACAN aircraft continue climb to 8000 via DDY VORTAC R-011 to CESPI/10 DME and Hold N, RT, 191° inbound).

ATIS	CASPER APP CON ★	CASPER TOWER ★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



VORTAC DDY 116.2 Chan 109	APP CRS 025°	Rwy Idg 10165 TDZE 5328 Apt Elev 5350
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VOR/DME RWY 3
CASPER/NATRONA COUNTY INTL (CPR)



MISSED APPROACH: Climb to 7600 direct DDY VORTAC and hold.


ATIS	CASPER APP CON ★	CASPER TOWER ★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95

Procedure NA for arrivals at DDY VORTAC
via airway radials 204 CW 273.

IAF
MUDDY MOUNTAIN
116.2 DDY 
Chan 109

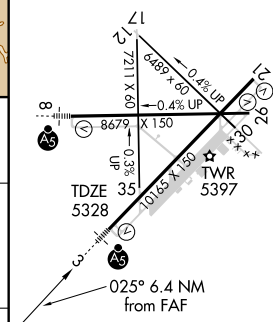
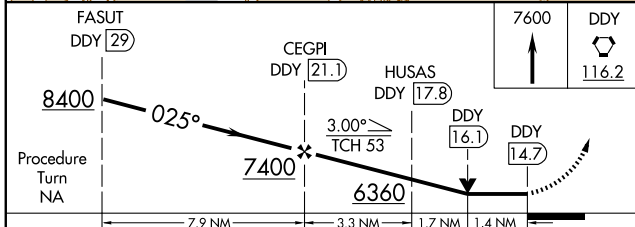
MSA DDY 25 NM

7600

$090^\circ \rightarrow$

 $\leftarrow 270^\circ$

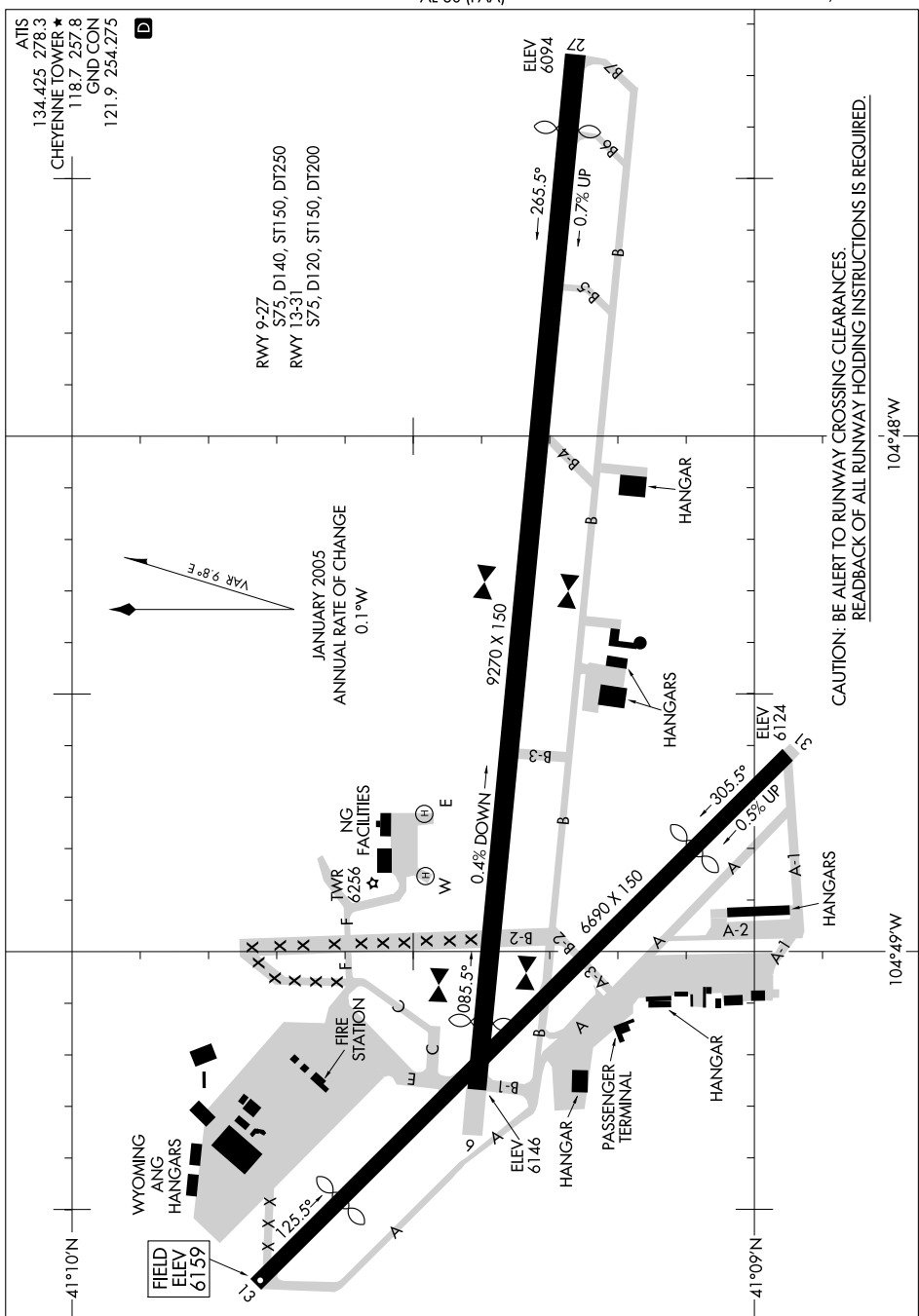
9500

ELEV 5350



CATEGORY	A	B	C	D
S-3	5820/24	492 (500-½)	5820/40 492 (500-¾)	5820/50 492 (500-1)
CIRCLING	5820-1	470 (500-1)	5820-1½ 470 (500-1½)	5900-2 550 (600-2)

REIL Rwy 21 and 26
HIRL Rwy 3-21 and 8-26 **L**

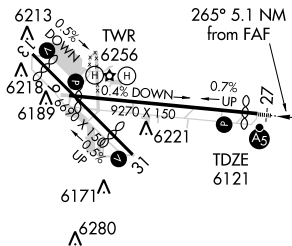


ILS or LOC RWY 27

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

MALSR

MISSED APPROACH: Climb to 6700, then climbing right turn to 8000 direct CYS VORTAC and hold. (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)

UNICOM
122.95

REIL Rwy 9, 13 and 31 **L**
 HIRL Rwy 9-27 **L**
 MIRL Rwy 13-31 **L**

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D
S-27	6620/50	499 (500-1)	6620/60 499 (500-1¼)	6620-1½ 499 (500-1½)
CIRCLING	6660-1	504 (600-1)	6660-1½ 504 (600-1½)	6720-2 564 (600-2)

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

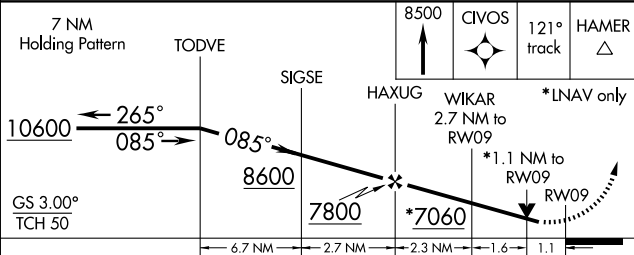
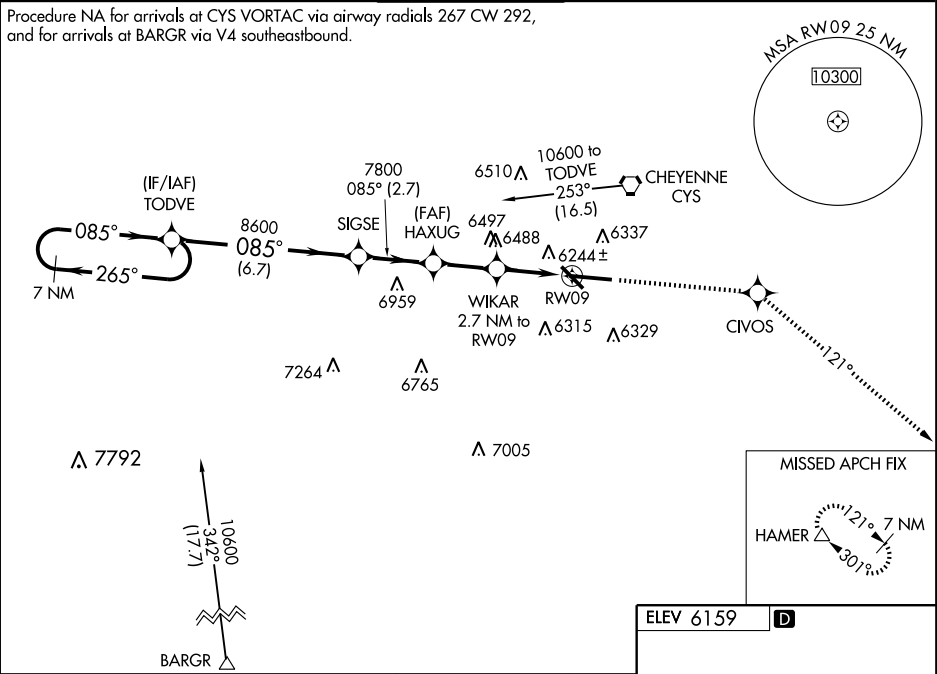
WAAS CH 73009 W09A	APP CRS 085°	Rwy Idg TDZE Apt Elev	7985 6143 6159
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RNAV (GPS) RWY 9
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

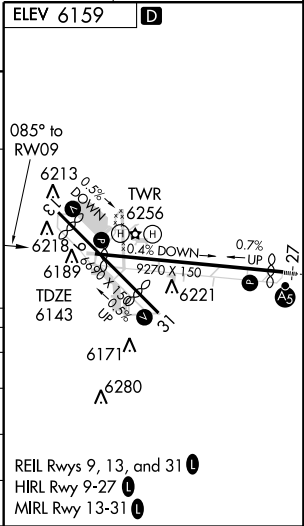
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
ASR/PAR DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA 251 feet, all MDA 260 feet, and all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Laramie altimeter setting.

MISSED APPROACH: Climb to 8500 direct CIVOS and via 121° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER * 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	6473-1¼ 330 (400-1¼)			
LNAV/VNAV DA	6542-1½ 399 (400-1½)			
LNAV MDA	6540-1 397 (400-1)			6540-1¼ 397 (400-1¼)
CIRCLING	6660-1 501 (600-1)		6660-1½ 501 (600-1½)	6720-2 561 (600-2)





REIL Rwy 9, 13, and 31 **L**
HIRL Rwy 9-27 **L**
MIRL Rwy 13-31 **L**

WAAS CH 56609 W13A	APP CRS 125°	Rwy Idg 4469 TDZE 6154 Apt Elev 6159
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RNAV (GPS) RWY 13

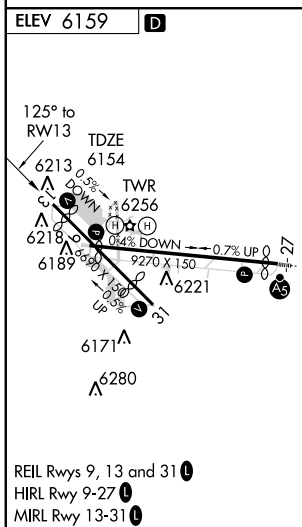
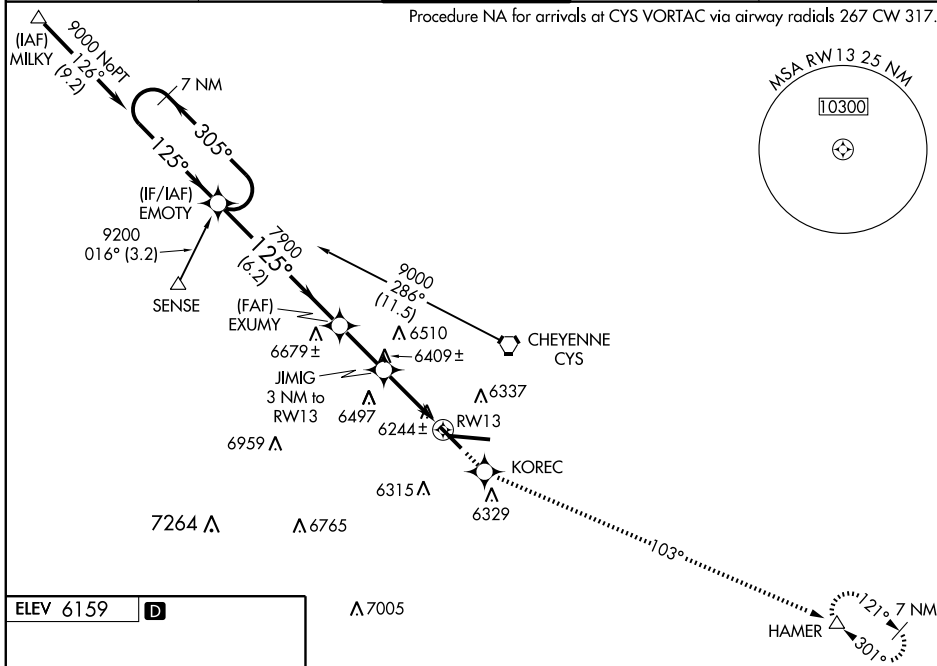
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

	Baro-VNAV NA when using Laramie altimeter setting.
	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
ASR/PAR	DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities 1 mile.

MISSED APPROACH: Climb to 8500 direct KOREC and via 103° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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Procedure NA for arrivals at CYS VORTAC via airway radials 267 CW 317.



<p>VGSI and RNAV glidepath not coincident</p> <p>7 NM Holding Pattern</p> <p>EMOTY</p> <p>9000 ← 305° → 125°</p> <p>GS 3.00° TCH 55</p> <p>EXUMY</p> <p>JIMIG 3 NM to RW13</p> <p>*7160</p> <p>RW13</p> <p>*LNAV only</p> <p>8500 ↑ KOREC</p> <p>103° track HAMER △</p> <p>6.2 NM 2.2 NM 3 NM</p>				
CATEGORY	A	B	C	D
LPV DA	6481-1 327 (400-1)			
LNAV/VNAV DA	6539-1¼ 385 (400-1¼)			
LNAV MDA	6660-1 506 (600-1)		6660-1½ 506 (600-1½)	
CIRCLING	6660-1 501 (600-1)		6660-1½ 501 (600-1½)	6720-2 561 (600-2)

WAAS CH 70307 W27A	APP CRS 265°	Rwy Idg 7985 TDZE 6121 Apt Elev 6160
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RNAV (GPS) RWY 27

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

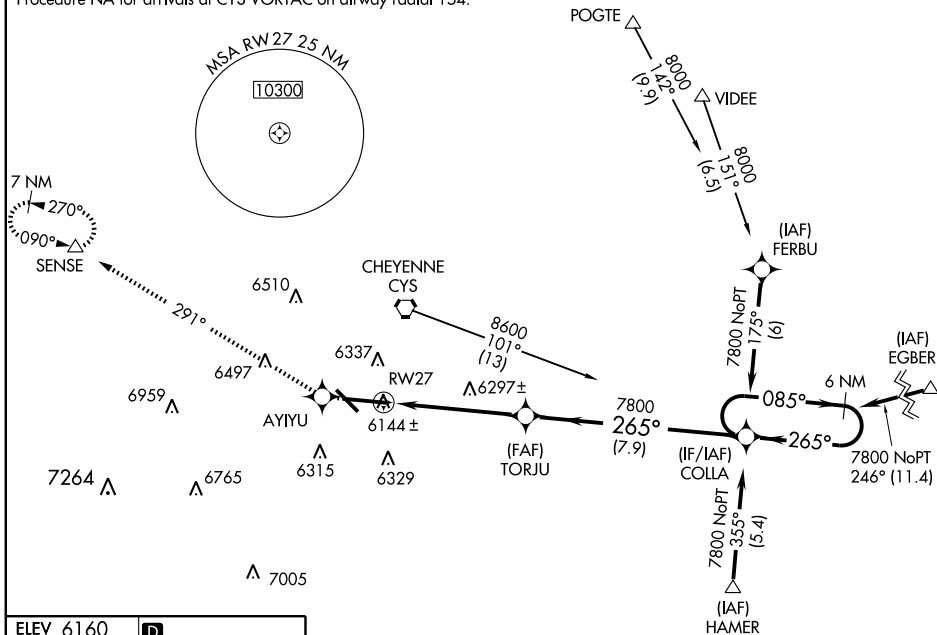
T Baro-VNAV NA below -27°C (-16°F).
ASR/PAR DME/DME RNP-0.3 NA.



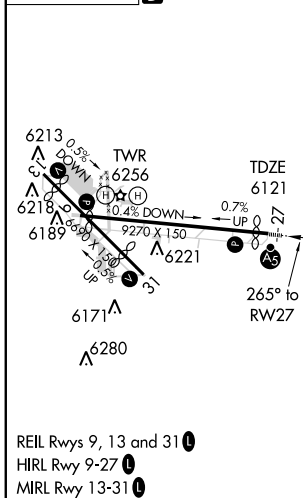
MISSED APPROACH: Climb to 10300 direct AYIU and via 291° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER * 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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Procedure NA for arrivals at CYS VORTAC on airway radial 154.



ELEV 6160	D
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10300 ↑	AYIYU ✦	291° track	SENSE △	<div><div>TORJU</div><div>COLLA</div><div>6 NM Holding Pattern</div></div>			
*LNAV only		*1.3 NM to RW27		<div><div>7800</div><div>← 265°</div><div>085° →</div><div>7800</div><div>GS 3.00° TCH 55</div></div>			
1.3 NM		3.8 NM		7.9 NM			
CATEGORY	A		B		C		D
LPV DA	6380/24 259 (300-½)						
LNAV/ VNAV	DA	6480/40 359 (400-¾)					
LNAV MDA	6560/24	439 (500-½)		6560/40 439 (500-¾)		6560/50 439 (500-1)	
CIRCLING	6660-1	500 (500-1)		6660-1½ 500 (500-1½)		6720-2 560 (600-2)	

▼

▲

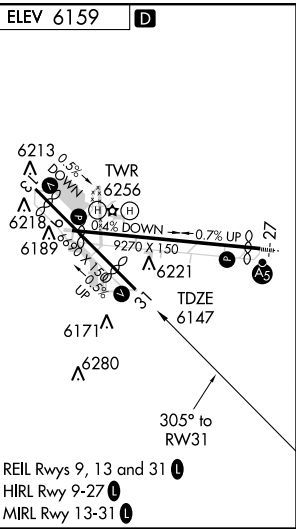
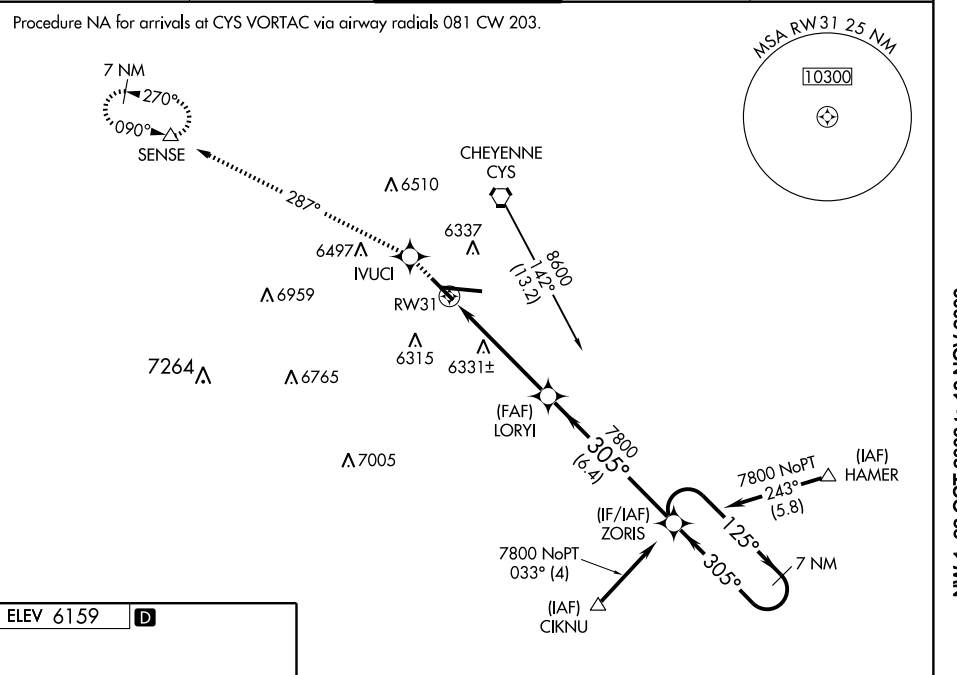
ASR/PAR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Laramie altimeter setting.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities ¾ mile.

MISSED APPROACH: Climb to 10300 direct IVUCI and via 287° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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Procedure NA for arrivals at CYS VORTAC via airway radials 081 CW 203.



10300 ↑	IVUCI ✦	287° track	SENSE △	VGSi and RNAV glidepath not coincident.			
				LORYI	ZORIS	7 NM Holding Pattern	
*LNAV only				125° → 7800			
*1.4 NM to RW31				← 305° 7800			
RW31				GS 3.00° TCH 55			
1.4				3.6 NM		6.4 NM	
CATEGORY	A		B		C		D
LPV DA	6397-1 250 (300-1)						
LNAV/ VNAV DA	6545-1½ 398 (400-1½)						
LNAV MDA	6600-1	453 (500-1)	6600-1¼ 453 (500-1¼)		6600-1½ 453 (500-1½)		
CIRCLING	6660-1	501 (600-1)	6660-1½ 501 (600-1½)		6720-2 561 (600-2)		

VORTAC CYS 113.1 Chan 78	APP CRS 196°	Rwy Idg TDZE Apt Elev 6156	N/A N/A 6156
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VOR or TACAN-A
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

ASR/PAR	MISSED APPROACH: Climbing left turn to 8000 via heading 350° and CYS VORTAC R-140 to CYS VORTAC and hold, continue climb-in-hold to 8000 (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)
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ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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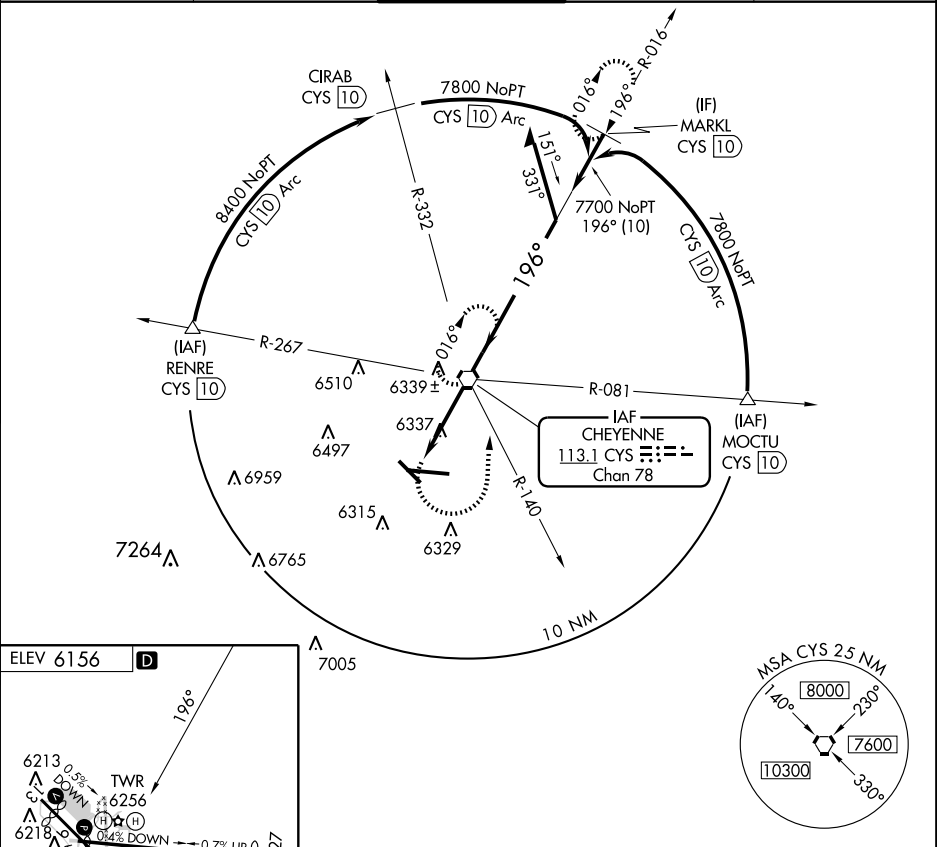


Diagram illustrating the 8000 VORTAC approach. The approach involves a 350° turn to 8000, followed by a 016° turn to 8000, and a 196° turn to 7700. A 3.3 NM distance is marked. The diagram includes a table with frequency information and a list of runway and taxiway identifiers.

8000	CYS R-140 113.1	CYS 113.1
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VORTAC

Remain within 10 NM

8000

7700

3.3 NM

REIL Rwy 9, 13 and 31
HIRL Rwy 9-27
MIRL Rwy 13-31

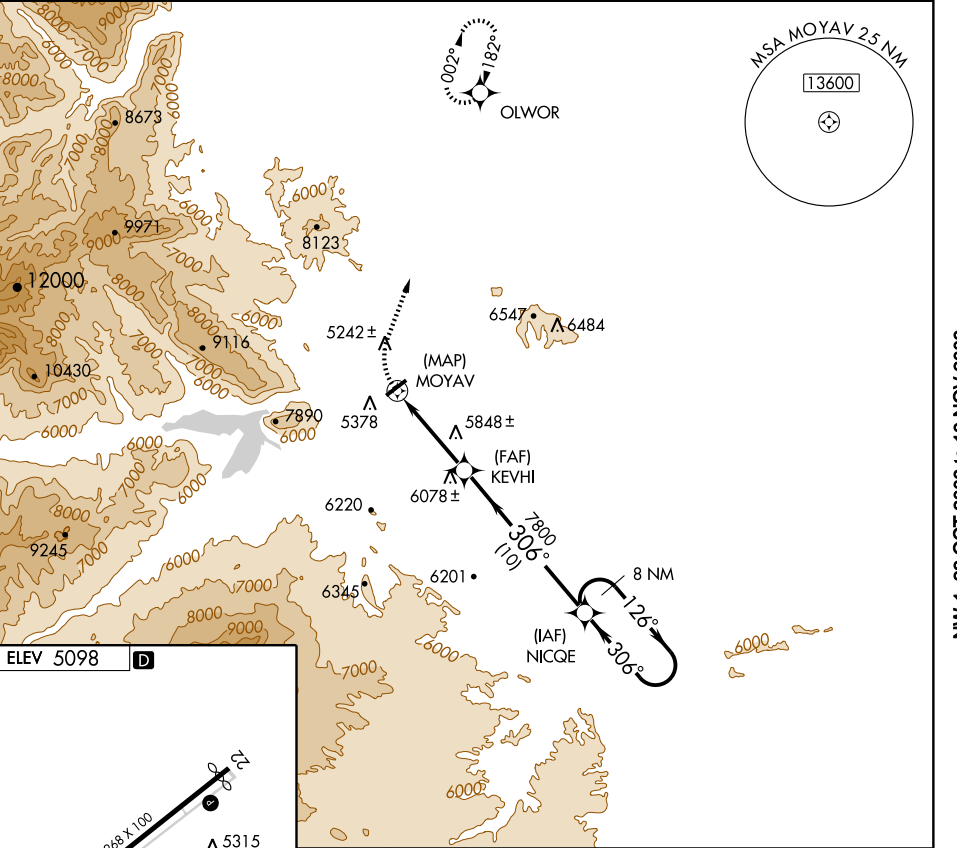
FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

▼

▲ NA

MISSED APPROACH: Climbing right turn to 6800 via 001° course to OLOWOR WP and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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ELEV 5098

8258 x 100

0.7% DOWN

5134

5315

5325

306° to MOYAV

REIL Rws 4 and 22 0

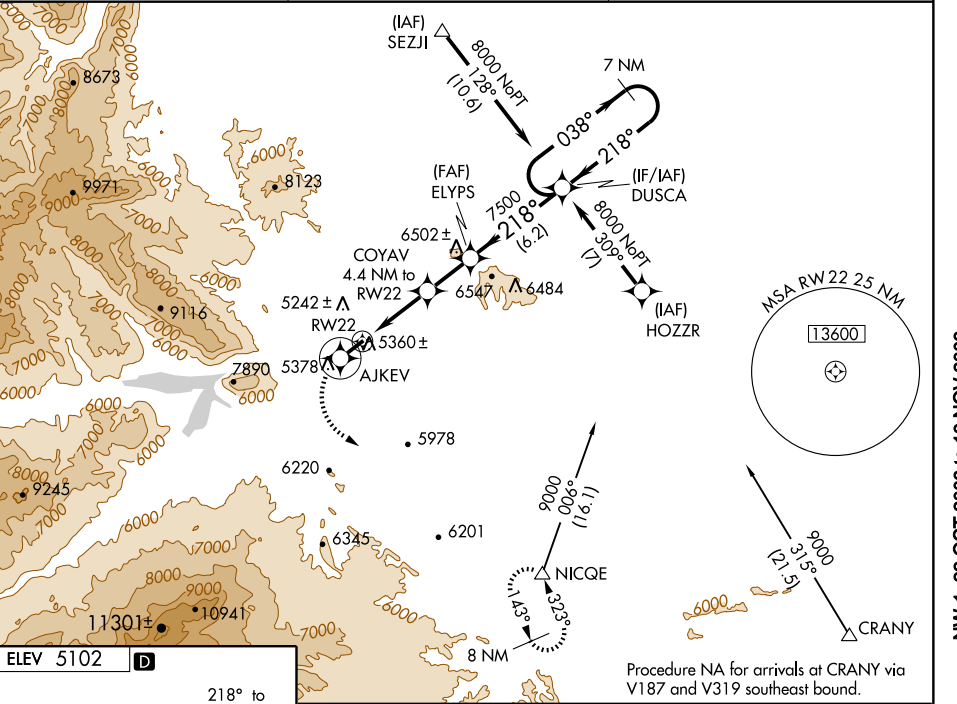
MIRL Rwy 4-22 0

6800 OLOWOR		8 NM Holding Pattern	
MOYAV		KEVHI	
5.6 NM		10 NM	
CATEGORY	A	B	C
CIRCLING	6100-1¼ 1002 (1100-1¼)	6100-1½ 1002 (1100-1½)	6100-3 1002 (1100-3)

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 9600 direct AJKEV and left turn via 123° track to NICQE and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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218° to RW22

TDZE 5076

8288 X 100

5134

5135

5325

9600

AJKEV

NICQE

123° Track

7 NM Holding Pattern

DUSCA

8000

GS 3.00° TCH 50

* LNAV only

COYAV 4.4 NM to RW22

ELYP

* 1.6 NM to RW22

6540

7500

1.6

2.8 NM

2.9 NM

6.2 NM

CATEGORY	A	B	C	D
LPV DA	5457-1¼ 381 (400-1¼)			
LNAV/ VNAV DA	NA			
LNAV MDA	5620-1 544 (600-1)	5620-1½ 544 (600-1½)	5620-1¾ 544 (600-1¾)	5620-2 544 (600-2)
CIRCLING	5840-1¼ 738 (800-1¼)	5900-2¼ 798 (800-2¼)	5960-2¾ 858 (900-2¾)	6020-3 918 (900-3)

REIL Rwy 4 and 22 0

MIRL Rwy 4-22 0

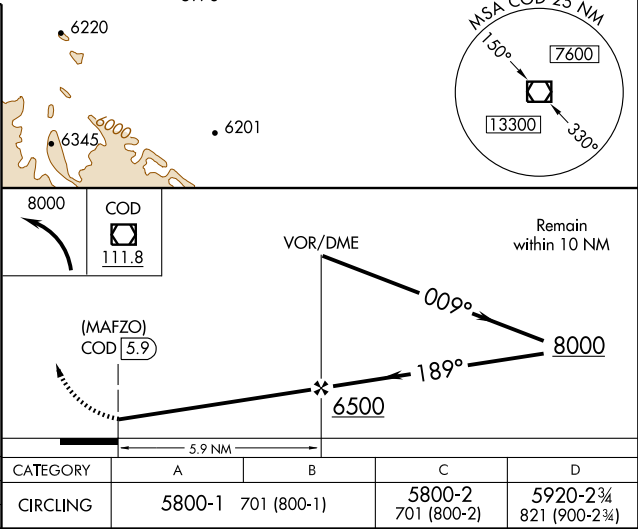
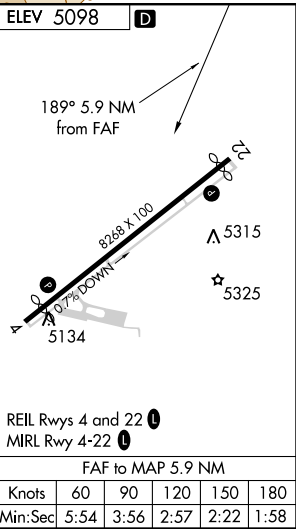
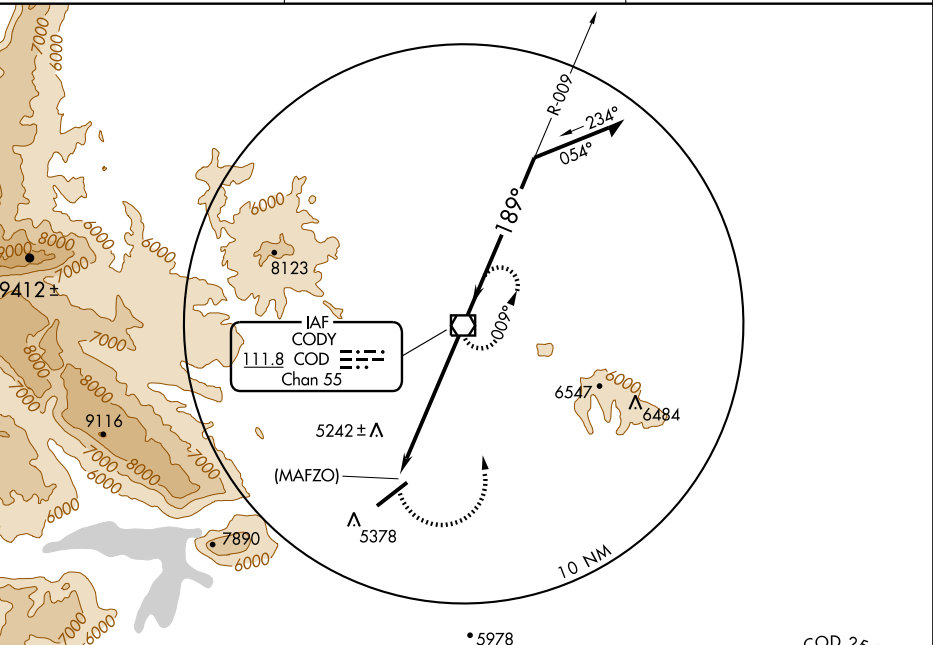
VOR/DME COD 111.8 Chan 55	APP CRS 189°	Rwy Idg TDZE Apt Elev 5098	N/A N/A 5098
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▼

▲

MISSED APPROACH: Climbing left turn to 8000 direct COD VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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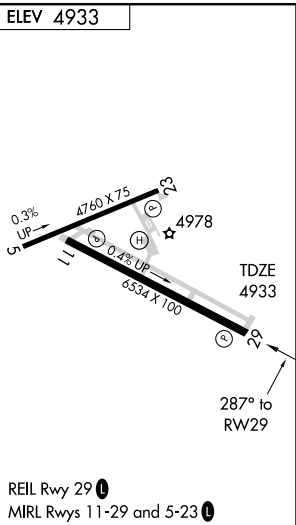
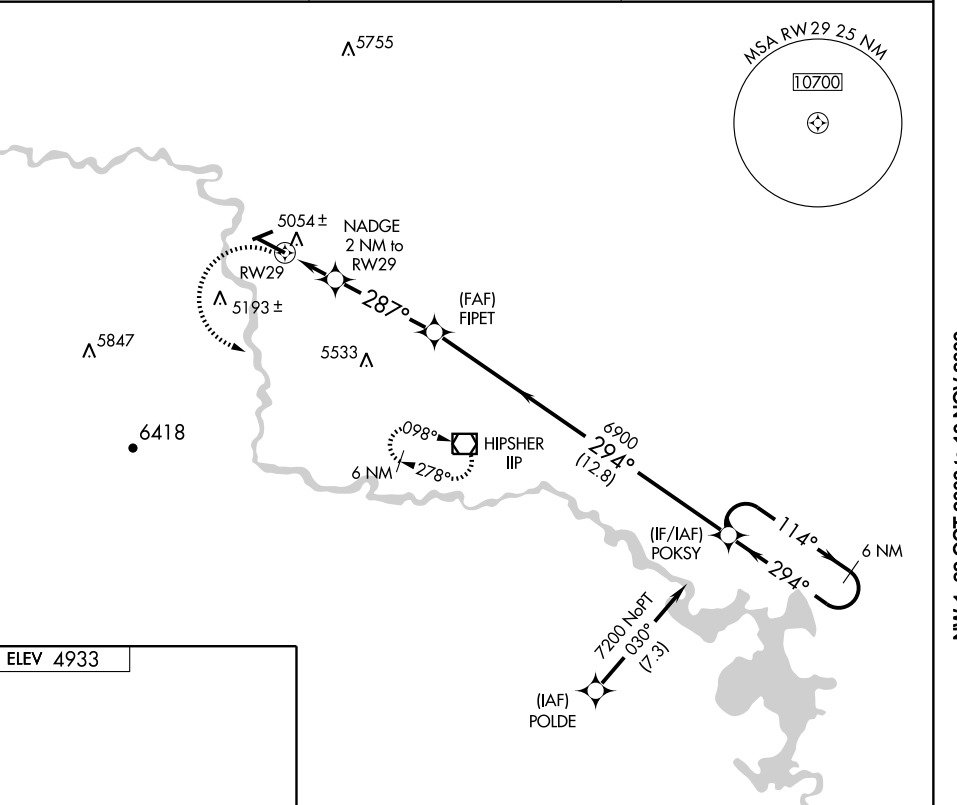





▼

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 7900 direct IIP VOR/DME and hold, continue-in-hold to 7900.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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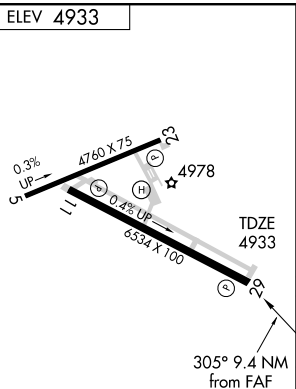
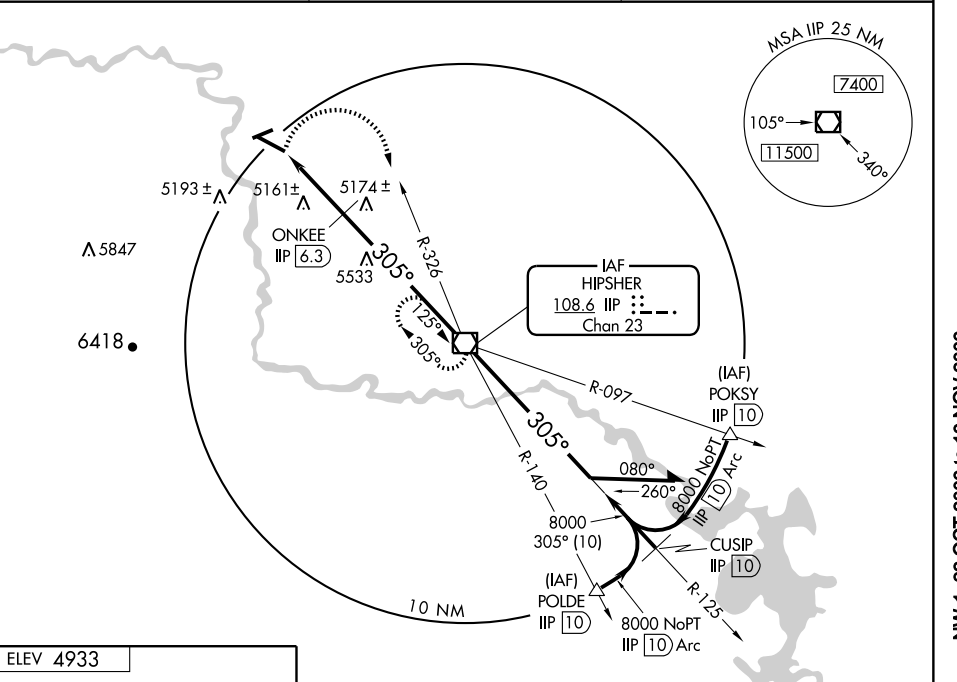
<div>7900</div> <div></div>	<div>IIP</div> <div></div>	<div>POKSY</div> <div>6 NM Holding Pattern</div>			
		<div>NADGE</div> <div>2 NM to RW29</div>		<div>FIPET</div>	
		<div>1.2 NM to RW29</div>		<div>≤ 3.00°</div> <div>TCH 40</div>	
		<div>RW29</div> <div></div>	<div>287°</div> <div>5620</div>	<div>294°</div> <div>6900</div>	<div>114°</div> <div>7200</div>
		<div>1.2</div>	<div>0.8</div>	<div>4.1 NM</div>	<div>12.8 NM</div>
CATEGORY	A		B	C	D
LNAV MDA	5360-1 427 (500-1)		5360-1¼ 427 (500-1¼)	5360-1½ 427 (500-1½)	5360-1½ 427 (500-1½)
CIRCLING	5520-1 587 (600-1)		5520-1½ 587 (600-1½)	5540-2 607 (700-2)	5540-2 607 (700-2)

▼

▲

MISSED APPROACH: Climbing right turn to 8000 via heading 160° and IIP VOR/DME R-326 to IIP VOR/DME and hold, continue climb-in-hold to 8000.

ASOS 135,225	DENVER CENTER 135.6 363,025	UNICOM 122.8 (CTAF) 0
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REIL Rwy 29 0
MIRL Rwys 11-29 and 5-23 0

FAF to MAP 9.4 NM						
Knots	60	90	120	150	180	
Min:Sec	9:24	6:16	4:42	3:46	3:08	

8000

160°

IIP R-326 108.6

IIP 108.6

VOR/DME

125°

305°

8000

8000

≤ 3.03° TCH 40

ONKEE IIP 6.3

IIP 9.4

IIP 8

5960

1.4

1.7

6.3 NM

CATEGORY	A	B	C	D
S-29	5960-1¼ 1027 (1100-1¼)	5960-1½ 1027 (1100-1½)	5960-3	1027 (1100-3)
CIRCLING	5960-1¼ 1027 (1100-1¼)	5960-1½ 1027 (1100-1½)	5960-3	1027 (1100-3)

ONKEE FIX MINIMUMS

S-29	5420-1	487 (500-1)	5420-1½ 487 (500-1½)	5420-1½ 487 (500-1½)
CIRCLING	5520-1	587 (600-1)	5520-1½ 587 (600-1½)	5540-2 607 (700-2)

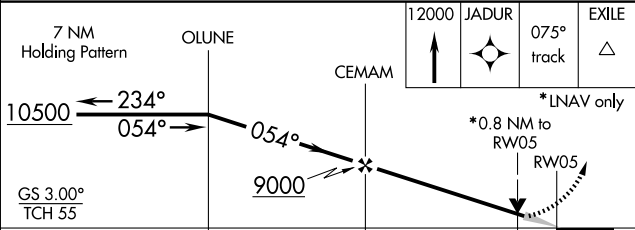
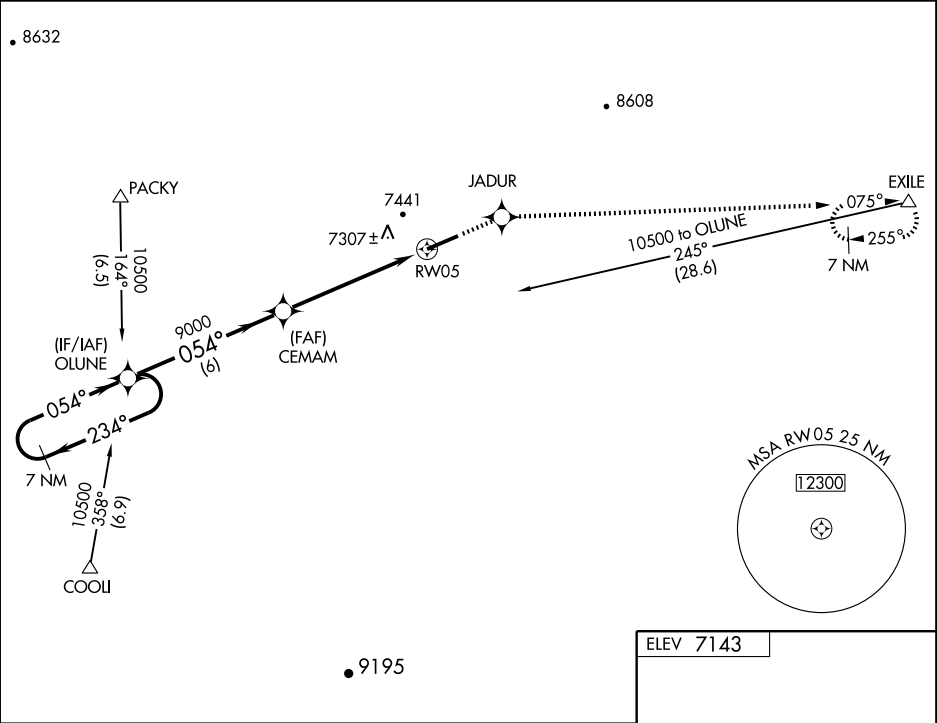
WAAS CH 78302 W05A	APP CRS 054°	Rwy Idg TDZE Apt Elev	7300 7141 7143
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RNAV (GPS) RWY 5

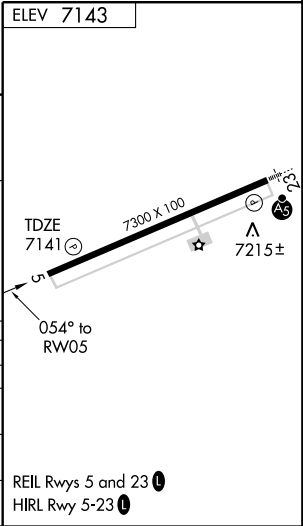
EVANSTON-UINTA COUNTY BURNS FIELD (E V W)

<p>▼ If local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (94°F). DME/DME RNP- 0.3 NA.</p>	<p>MISSED APPROACH: Climb to 12000 direct JADUR and via 075° track to EXILE and hold, continue climb-in-hold to 12000.</p>
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ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	7391-3/4 250 (300-3/4)			
LNAV/VNAV DA	7643-13/4 502 (500-13/4)			
LNAV MDA	7440-1 299 (300-1)			
CIRCLING	7580-13/4 437 (500-13/4)	7720-13/4 577 (600-13/4)	7760-13/4 617 (700-13/4)	7760-2 617 (700-2)



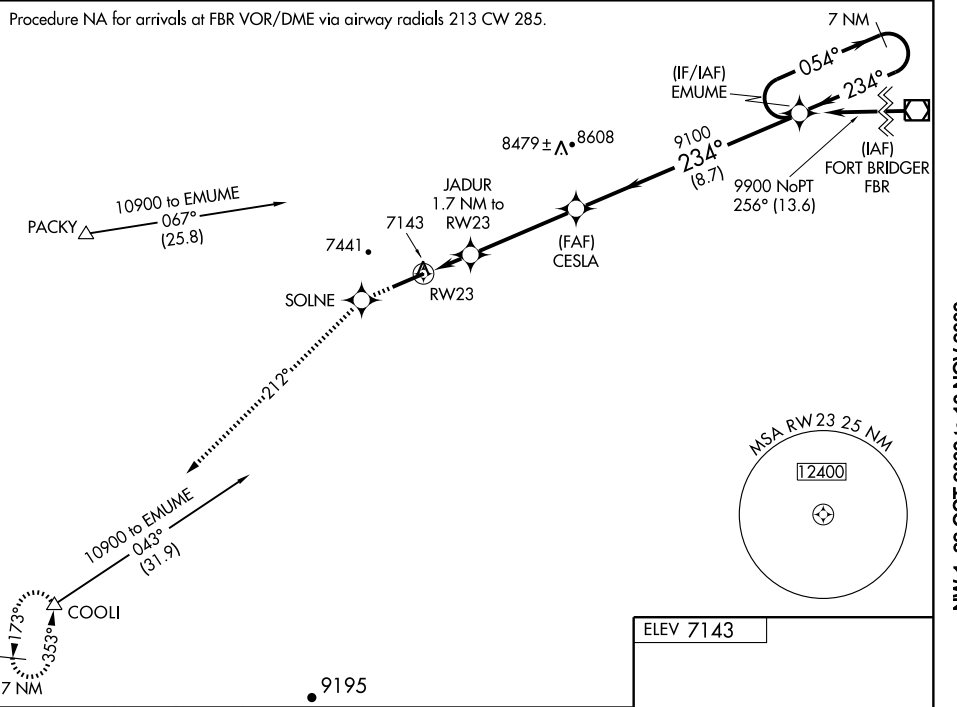
▼

For inoperative MALSR, increase LPV all Cats. visibility to 1, LNAV/VNAV Cat. D to 1 and LNAV Cat. D to 1¼.
When local altimeter setting not received, procedure NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F). DME/DME RNP-0.3 NA.

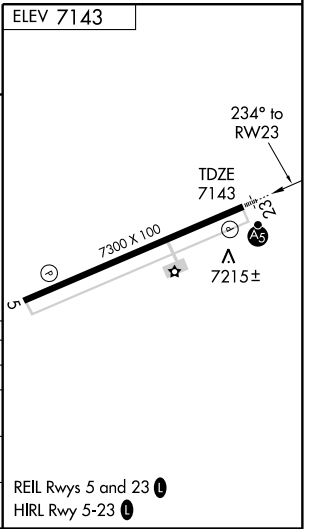
MALSR

MISSED APPROACH: Climb to 12000 direct SOLNE and via 212° track to COOLI and hold, continue climb-in-hold to 12000.

ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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12000	SOLNE	212° track	COOLI				
*LNAV only				JADUR 1.7 NM to RW23			
				*1.1 NM to RW23			
				RW23			
				7700*			
				1.1 NM	0.6 NM	4.2 NM	8.7 NM
CATEGORY	A	B	C	D			
LPV DA	7393-½			250 (300-½)			
LNAV/VNAV DA	7443-½			300 (300-½)		7443-¾	300 (300-¾)
LNAV MDA	7520-½			377 (400-½)		7520-1	377 (400-1)
CIRCLING	7580-1	7720-1	7760-1¾	7760-2		7760-2	617 (700-2)
	437 (500-1)	577 (600-1)	617 (700-1¾)	617 (700-2)			



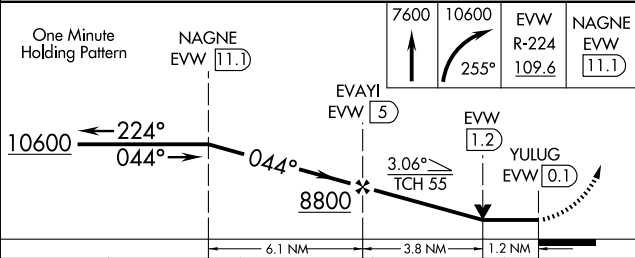
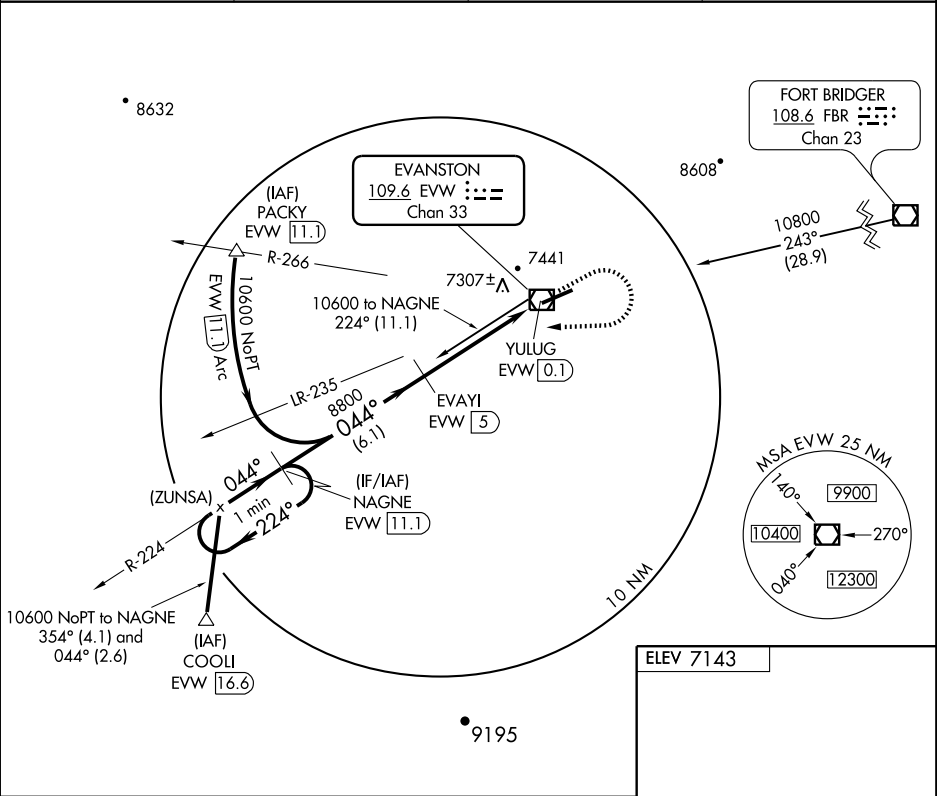
VOR/DME EVW 109.6 Chan 33	APP CRS 044°	Rwy Idg TDZE Apt Elev	7300 7141 7143
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VOR/DME RWY 5

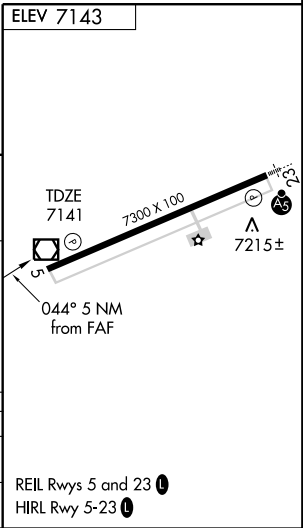
EVANSTON-UINTA COUNTY BURNS FIELD (E V W)

If local altimeter setting not received, procedure NA.			
ASOS 120.0	SALT LAKE CENTER 127.7 354.125		GCO 121.72
		UNICOM 123.0 (CTAF) 1	

MISSED APPROACH: Climb to 7600, then climbing right turn to 10600 via heading 255° and EVW R-224 to NAGNE/11.1 DME and hold, continue climb-in-hold to 10600.



CATEGORY	A	B	C	D
S-5	7560-1 419 (500-1)	7560-1 ¼ 419 (500-1 ¼)		
CIRCLING	7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1 ¾ 617 (700-1 ¾)	7760-2 617 (700-2)



VOR/DME EVW 109.6 Chan 33	APP CRS 237°	Rwy Idg TDZE Apt Elev 7300 7143 7143
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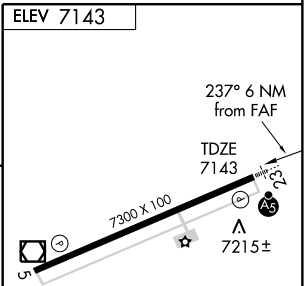
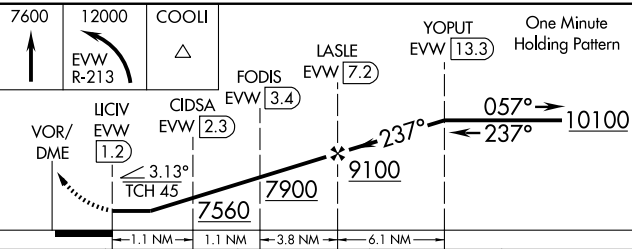
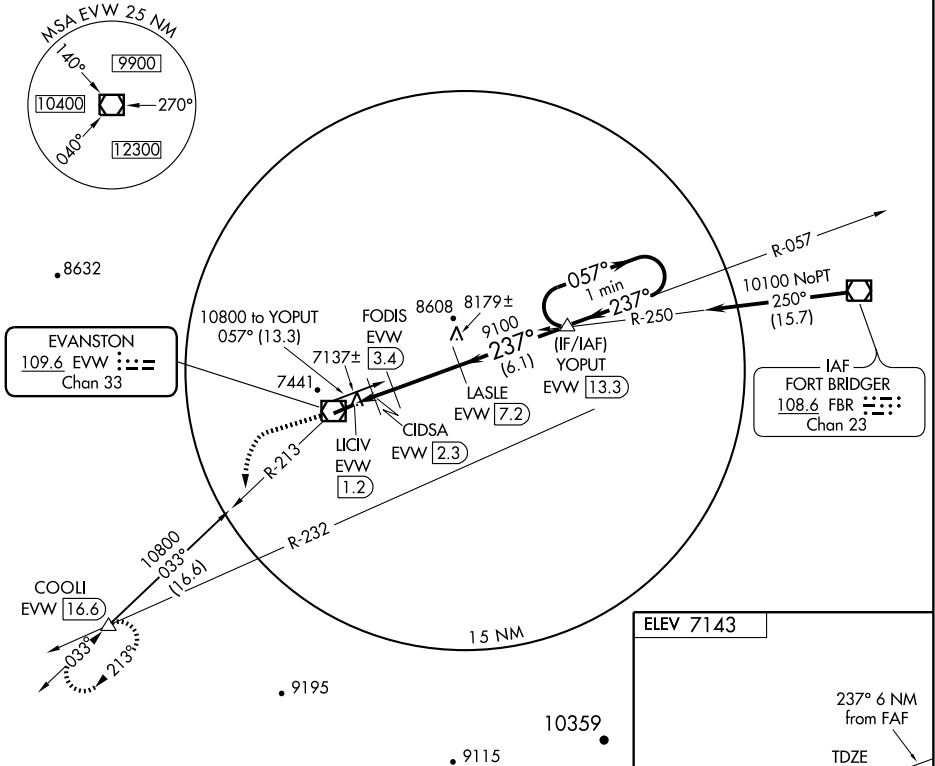
VOR/DME RWY 23

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

▲ For inoperative MALS, increase S-23 Cat. D visibility to 1½ mile. If local altimeter setting not received, procedure NA.	MALSR 	MISSED APPROACH: Climb to 7600 then climbing left turn to 12000 via EVW VOR/DME R-213 to COOLI/16.6 DME and hold, continue climb-in-hold to 12000.
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ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) ①
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Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



CATEGORY	A	B	C	D
S-23	7500-½ 357 (400-½)			7500-1 357 (400-1)
CIRCLING	7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1¾ 617 (700-1¾)	7760-2 617 (700-2)

REIL Rwy 5 and 23 ①
HIRL Rwy 5-23 ①

APP CRS	Rwy Idg	6402
221°	TDZE	7018
	Apt Elev	7034

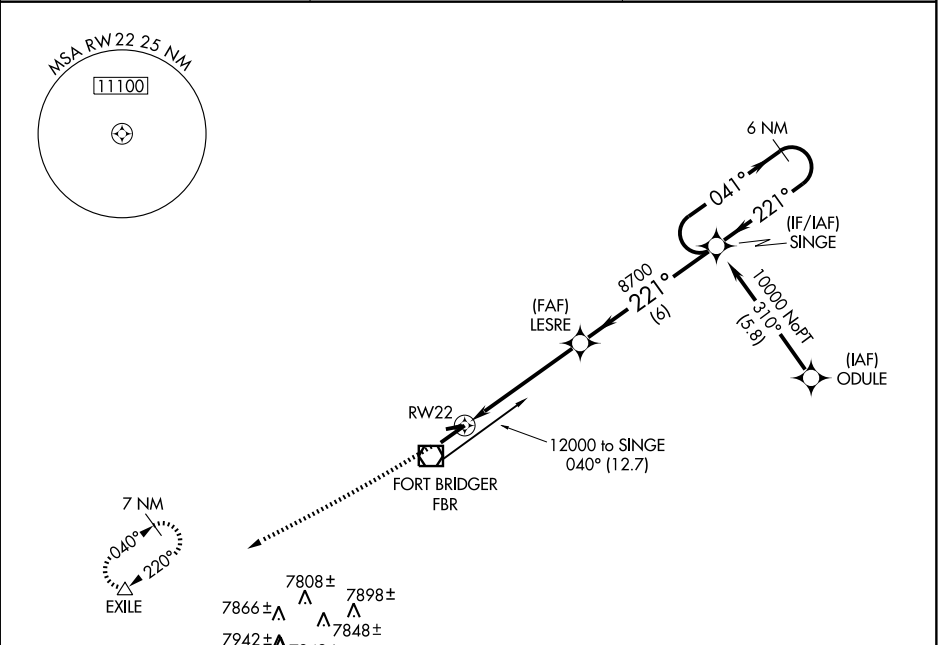
RNAV (GPS) RWY 22

FORT BRIDGER (FBR)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA

MISSED APPROACH: Climbing right turn to 12000 direct EXILE WP and hold.

AWOS-1 118.8	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) 0
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EXILE

CATEGORY	A	B	C	D
LNAV MDA	7360-1 342 (400-1)			7360-1 ¼ 342 (400-1 ¼)
CIRCLING	7480-1 446 (500-1)	7500-1 466 (500-1)	7500-1 ½ 466 (500-1 ½)	7600-2 566 (600-2)

ELEV 7034

REIL Rwy 22 0
MIRL Rwy 4-22 0

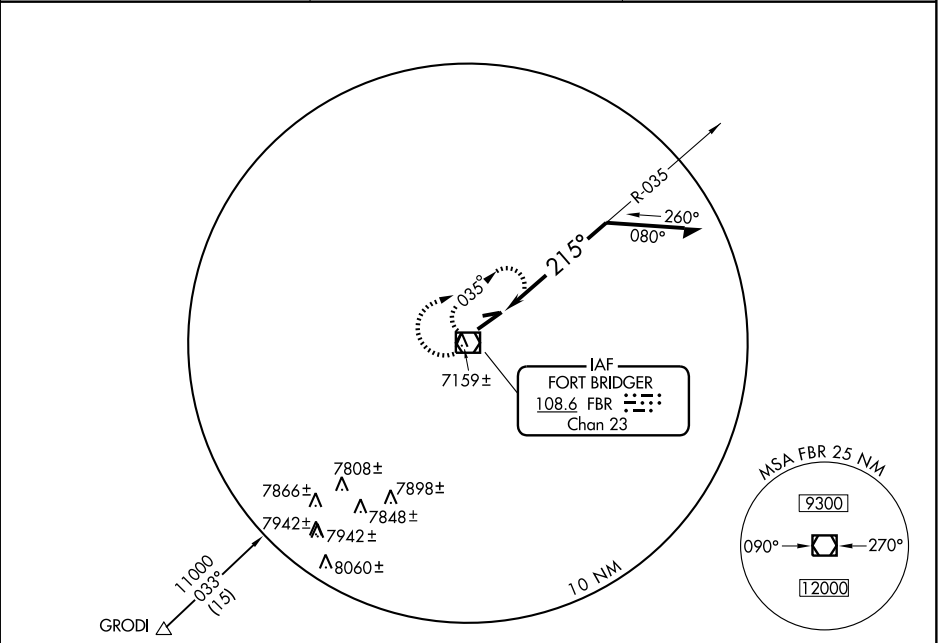
VOR RWY 22
FORT BRIDGER (FBR)

VOR/DME FBR	APP CRS	Rwy Idg	6402
108.6	215°	TDZE	7018
Chan 23		Apt Elev	7034

▼
▲ NA If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 9000 in FBR
VOR/DME holding pattern.

AWOS-1 118.8	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) 0
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ELEV 7034

9000	FBR
	108.6

VOR/DME*

Remain within 10 NM

035°

215°

8500

*Maintain 8700 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
S-22	7440-1	422 (500-1)	7440-1 ¼	422 (500-1 ¼)
CIRCLING	7480-1 446 (500-1)	7500-1 466 (500-1)	7500-1 ½ 466 (500-1 ½)	7600-2 566 (600-2)

REIL Rwy 22 0
MIRL Rwy 4-22 0

LOC/DME I-LLT <u>110.1</u> Chan 38	APP CRS 338°	Rwy Idg 7500 TDZE 4365 Apt Elev 4365
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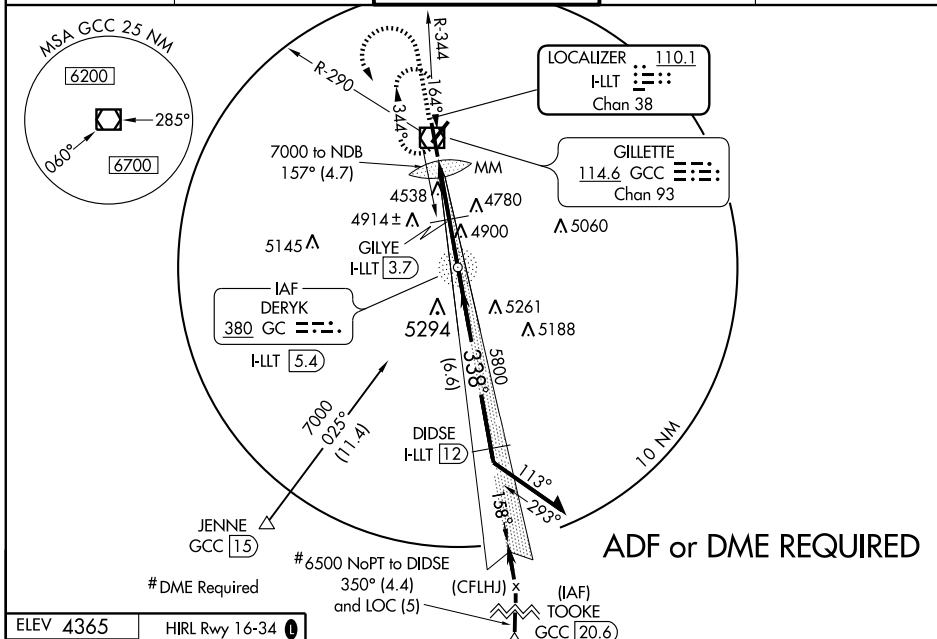
ILS or LOC RWY 34
GILLETTE-CAMPBELL COUNTY (GCC)

- T** For inoperative MALS R, increase S-LOC Cat A, and GLYE FIX MINIMUMS S-LOC Cat A/B visibilities to 1.
A Inoperative table does not apply to S-ILS 34.
When VGSI inoperative, circling Rwy 3 NA at night.
If local altimeter setting not received, procedure NA.
ADF or DME required.

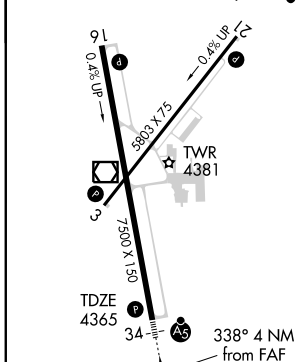
MALSR
A5

MISSED APPROACH: Climb to 5700 then climbing left turn to 7000 via heading 150° and GCC VOR/DME R-290 to GCC VOR/DME and hold, continue climb-in-hold to 7000.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER* 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 4365	HIRL Rwy 16-34 L
	REIL Rwy 3, 16 and 21
	MIRL Rwy 3-21 L



REIL Rwy 3, 16 and 21
MIRL Rwy 3-21

91
0.4% UP

5803 X 75

TWR 4381

7500 X 150

TDZE 4365

34

338° 4 NM from FAF

FAF to MAP 4 NM

Knots 60 90 120 150 180

Min:Sec 4:00 2:40 2:00 1:36 1:20

3700 7000

150°

GCC R-290 114.6

GCC 114.6

Use I-LLT DME when on LOC course

I-LLT 1.4 MM

I-LLT 3

I-LLT 3.7

GILYE

5706

DERYK NDB I-LLT 5.4

Remain within 10 NM

VGSI and ILS glidepath not coincident.

158°

338°

6600

5200*

5800

GS 3.00° TCH 47

CATEGORY	A	B	C	D
S-ILS 34	4565- $\frac{3}{4}$ 200 (200- $\frac{3}{4}$)			
S-LOC 34	5200- $\frac{3}{4}$ 835 (900- $\frac{3}{4}$)	5200-2 835 (900-2)	5200-2 $\frac{1}{4}$ 835 (900-2 $\frac{1}{4}$)	
CIRCLING	5200-1 835 (900-1)	5200-1 $\frac{1}{4}$ 835 (900-1 $\frac{1}{4}$)	5200-2 $\frac{1}{2}$ 835 (900-2 $\frac{1}{2}$)	5280-3 915 (1000-3)
GILYE FIX MINIMUMS				
S-LOC 34	4940- $\frac{3}{4}$ 575 (600- $\frac{3}{4}$)	4940-1 575 (600-1)	4940-1 $\frac{1}{4}$ 575 (600-1 $\frac{1}{4}$)	
CIRCLING	5040-1 675 (700-1)	5120-2 $\frac{1}{4}$ 755 (800-2 $\frac{1}{4}$)	5280-3 915 (1000-3)	

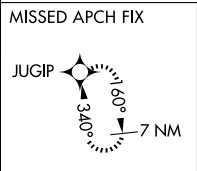
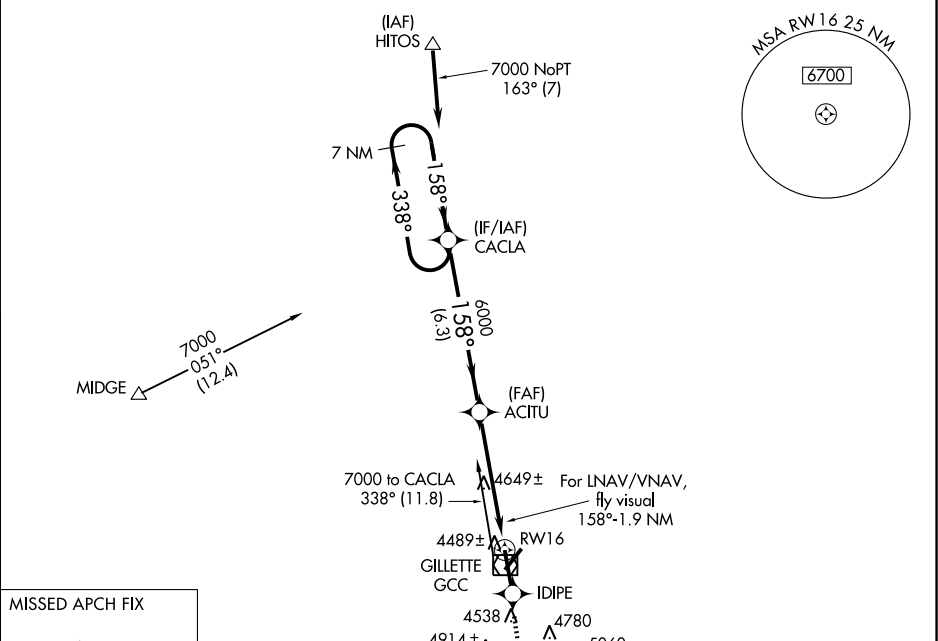
WAAS Chan 86221 W16A	APP CRS 158°	Rwy Idg TDZE 7500 Apt Elev 4337 4365
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RNAV (GPS) RWY 16
GILLETTE-CAMPBELL COUNTY (GCC)

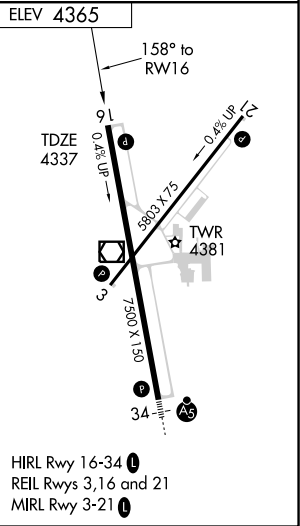
⚠ DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F).
⚠ If local altimeter setting not received, procedure NA.
When VGSI inoperative, circling Rwy 3 NA at night.

MISSED APPROACH: Climb to 7000 direct IDIPE and via 161° track to JUGIP and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER ★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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7 NM Holding Pattern	CACLA	*LNAV only	7000	IDIPE	161° track	JUGIP
7000	338°	158°	158°	6000	158°	158°
GS 3.00°	TCH 45	6.3 NM	3.4 NM	1.6 NM		
CATEGORY	A	B	C	D		
LPV DA	4660-1¼	323 (300-1¼)				
LNAV/VNAV DA	4980-2	643 (700-2)				
LNAV MDA	4900-1 563 (600-1)	4900-1½ 563 (600-1½)	4900-1¾ 563 (600-1¾)			
CIRCLING	5040-2¼ 675 (700-2¼)	5120-2¼ 755 (800-2¼)	5280-3 915 (1000-3)			



WAAS Chan 86204 W34A	APP CRS 338°	Rwy Idg 7500 TDZE 4365 Apt Elev 4365
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RNAV (GPS) RWY 34
GILLETTE-CAMPBELL COUNTY (GCC)

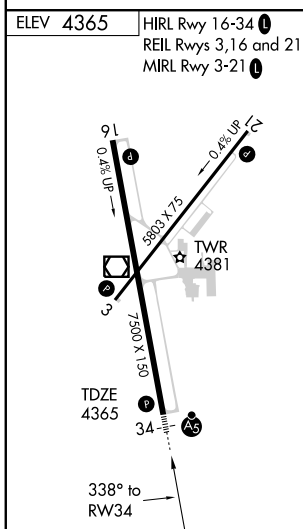
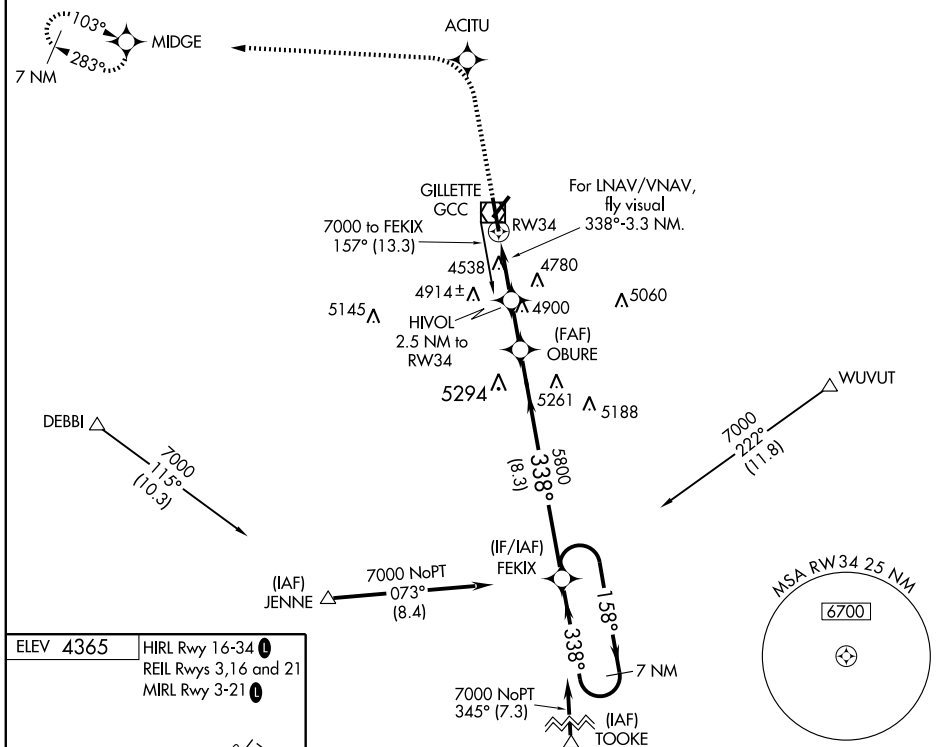
⚠ Inoperative table does not apply to LPV and LNAV/VNAV. For inoperative MALSR, increase LNAV Cat A visibility to 1. When VGSi inoperative, Circling Rwy 3 NA at night. If local altimeter setting not received, procedure NA. DME/DME RNP-0.3 NA. Baro-VNAV NA below -23°C (-9°F)

MALSR



MISSED APPROACH: Climb to 7000
direct ACITU and via 261° track
to MIDGE and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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				261° track				VGS1 and RNAV glidepath not coincident		7 NM Holding Pattern	
For LNAV/VNAV, fly visual 338°-3.3 NM		RW34		H1VOL 2.5 NM to RW34		OBURE		FEKIX		158° ← 338° 7000	
5200		5800		338°		338°		7000		GS 3.00° TCH 52	
2.5 NM		1.8 NM		8.3 NM							
CATEGORY	DA	A		B		C				D	
LPV	DA			4620-3/4		255 (300-3/4)					
LNAV/ VNAV	DA	5480-2		1115 (1200-2)		5480-3		1115 (1200-3)			
LNAV	MDA	5120-3/4		755 (800-3/4)		5120-13/4		755 (800-13/4)		5120-2	
										755 (800-2)	
CIRCLING				5480-4		1115 (1200-4)					

VOR/DME GCC 114.6 Chan 93	APP CRS 158°	Rwy Idg TDZE Apt Elev	7500 4337 4365
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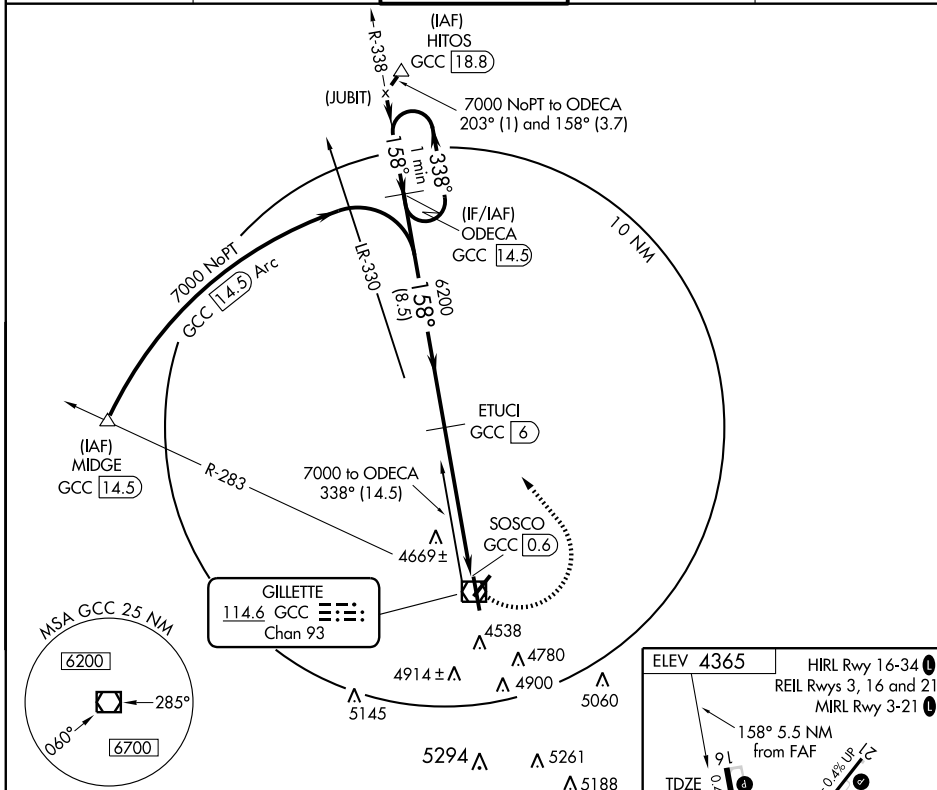
VOR/DME RWY 16

GILLETTE-CAMPBELL COUNTY (GCC)

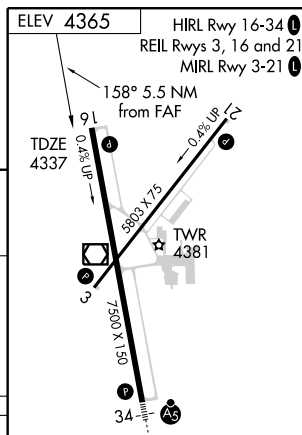
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.
When VGSI inoperative, circling Rwy 3 NA at night.

MISSED APPROACH: Climbing left turn to 7000 via heading 308° and GCC R-338 to ODECA/14.5 DME and hold.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER ★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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One Minute Holding Pattern		ODECA GCC 14.5	ETUCI GCC 6	7000 GCC R-338 114.6	ODECA GCC 14.5	VOR/DME GCC 2.1 SOSCO GCC 0.6
7000 ← 338° 158° →						
VGSI and descent angles not coincident						
8.5 NM		3.9 NM		1.6 NM		
CATEGORY	A	B	C	D		
S-16	4920-1	583 (600-1)	4920-1½ 583 (600-1½)	4920-1¾ 583 (600-1¾)		
CIRCLING	5040-1	675 (700-1)	5120-2¼ 755 (800-2¼)	5280-3 915 (1000-3)		



VOR/DME GCC 114.6 Chan 93	APP CRS 334°	Rwy Idg TDZE Apt Elev 7500 4365 4365
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VOR/DME RWY 34

GILLETTE-CAMPBELL COUNTY (GCC)

<p>▼ For inoperative MALS, increase S-34 Cat A visibility to 1.</p> <p>▲ When VGSI inoperative, Circling Rwy 3 NA at night. If local altimeter setting not received, procedure NA.</p>	<p>MALS R</p> <p>A5</p>	<p>MISSED APPROACH: Climb to 7000 via GCC VOR/DME R-154 to GCC VOR/DME and hold, continue climb-in-hold to 7000.</p>
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ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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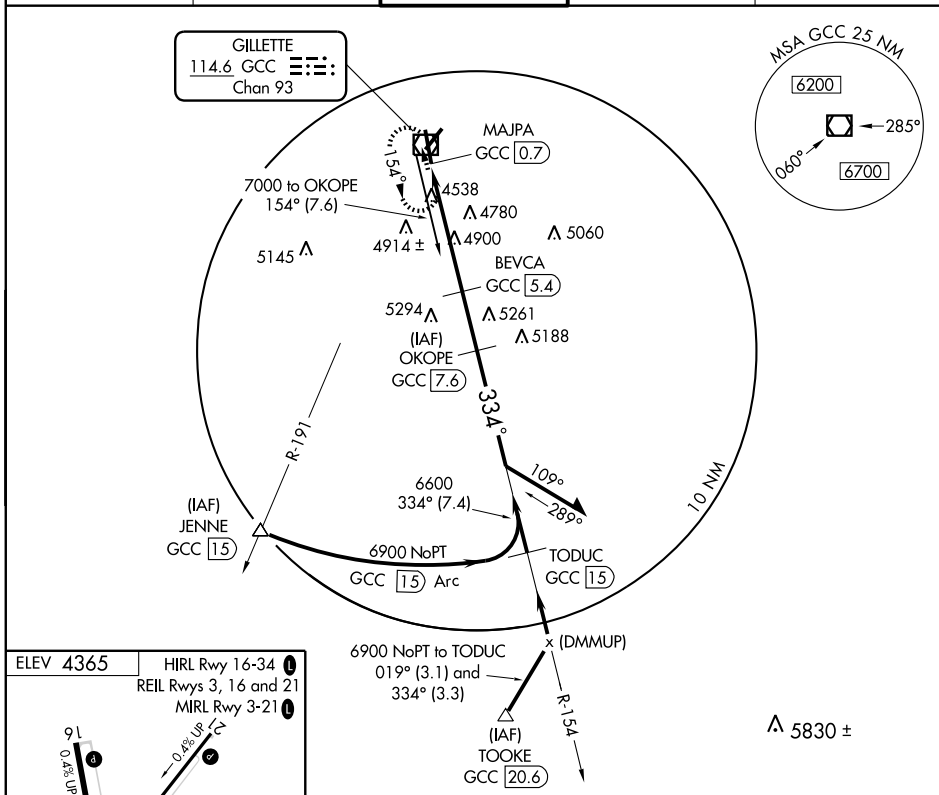


Diagram illustrating the approach procedure for runway 34. The runway is 7500x150 feet. The TDZE is 4365. The approach is aligned with 334° 6.9 NM from the FAF. Obstacles include TWR 4381, 5805x75, and 5345. A 34° heading is indicated.

Diagram illustrating the approach procedure for runway 34, showing the final approach and circling segments. The final approach is 334° 6.9 NM from the FAF. The circling segment is 2.3 NM. The final approach segment is 2.4 NM. The circling segment is 2.2 NM. The final approach segment is 2.2 NM. The final approach segment is 2.2 NM.

CATEGORY	A	B	C	D
S-34	5200- $\frac{3}{4}$	835 (900- $\frac{3}{4}$)	5200-2 835 (900-2)	5200-2 $\frac{1}{4}$ 835 (900-2 $\frac{1}{4}$)
CIRCLING	5200-1 835 (900-1)	5200-1 $\frac{1}{4}$ 835 (900-1 $\frac{1}{4}$)	5200-2 $\frac{1}{2}$ 835 (900-2 $\frac{1}{2}$)	5280-3 915 (1000-3)

NDB RWY 33

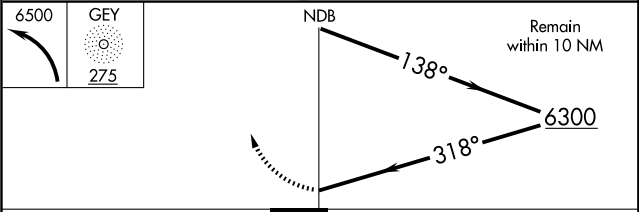
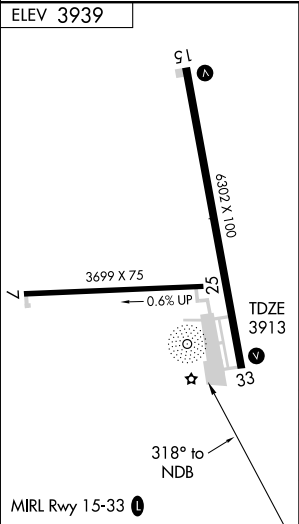
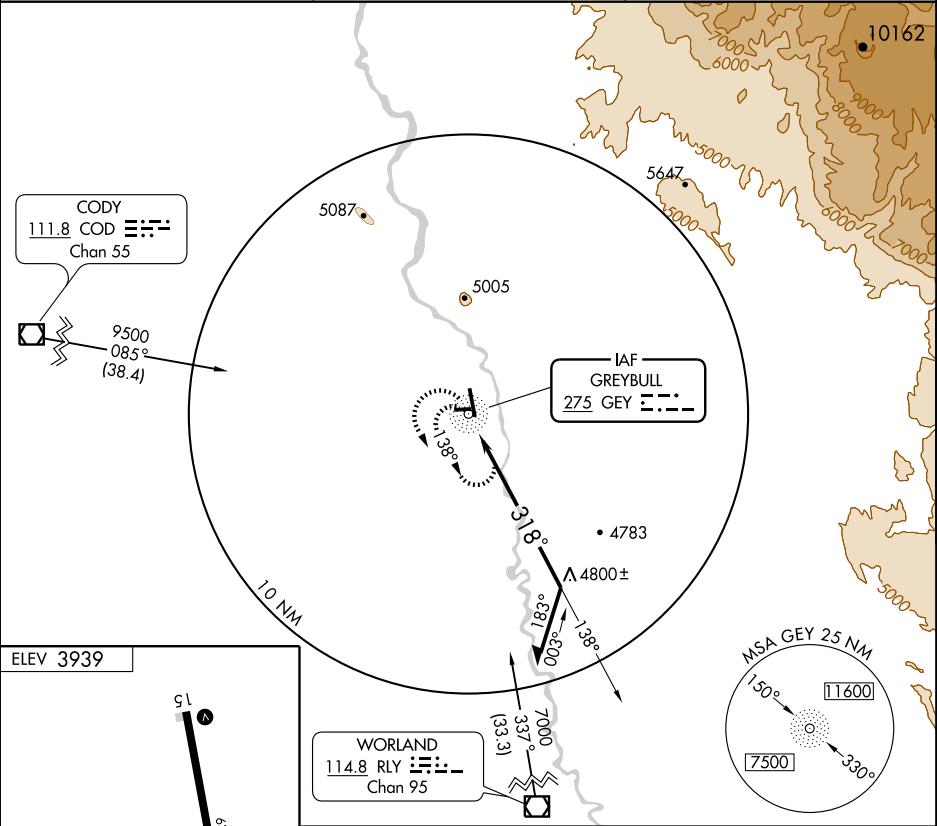
GREYBULL/SOUTH BIG HORN COUNTY (GEY)

NDB GEY	APP CRS	Rwy Idg	6302
275	318°	TDZE	3913
		Apt Elev	3939

▼ If local altimeter setting not received, use Worland
altimeter setting and increase all MDAs 120 feet.
▲ NA Visibility reduction by helicopter NA.

MISSED APPROACH: Climbing left turn to 6500 in GEY NDB holding pattern.

ASOS	SALT LAKE CENTER	CTAF
135,325	133.25 285.6	122.9 0



CATEGORY	A	B	C	D
S-33	5200-1¼ 1287 (1300-1¼)	5200-1½ 1287 (1300-1½)	5200-3	1287 (1300-3)
CIRCLING	5200-1¼ 1261 (1300-1¼)	5200-1½ 1261 (1300-1½)	5200-3	1261 (1300-3)

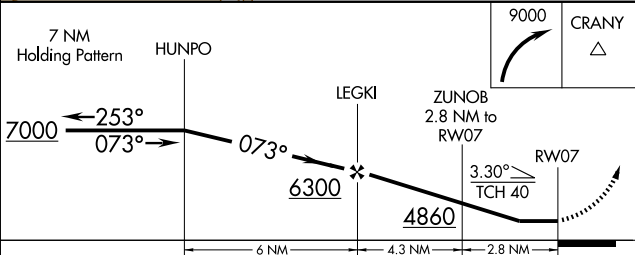
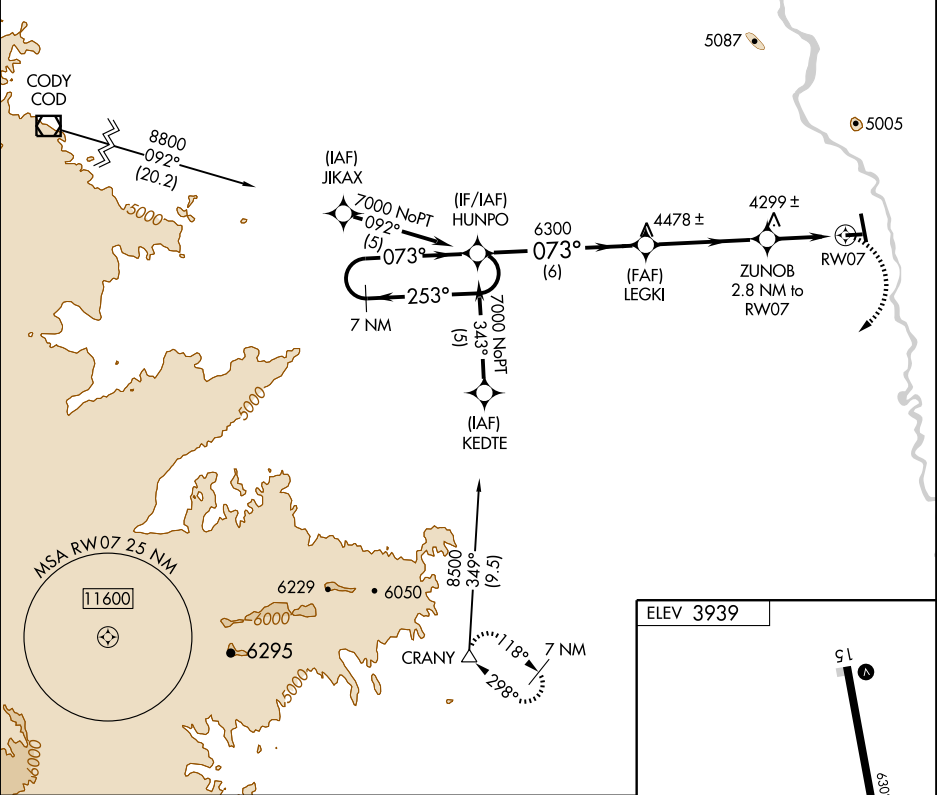
APP CRS	Rwy Idg	N/A
073°	TDZE	N/A
	Apt Elev	3939

⚠ DME/DME RNP -0.3 NA.
⚠ If local altimeter setting not received, use Worland Muni altimeter setting and increase all MDAs 120 feet.
Circling to Rwy 7/25 NA at night.

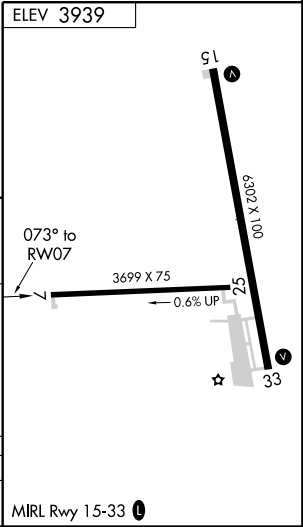
MISSED APPROACH: Climbing right turn to 9000 direct CRANY and hold, continue climb-in-hold to 9000.

ASOS 135.325	SALT LAKE CENTER 133.25 285.6	CTAF 122.9 0
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Procedure NA for arrivals at COD VOR/DME via V85 northwest bound.



CATEGORY	A	B	C	D
CIRCLING	4560-1 621 (700-1)	4580-1 641 (700-1)	NA	NA



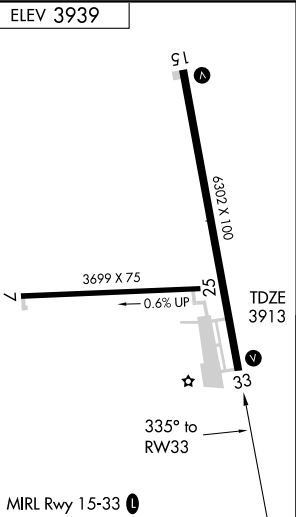
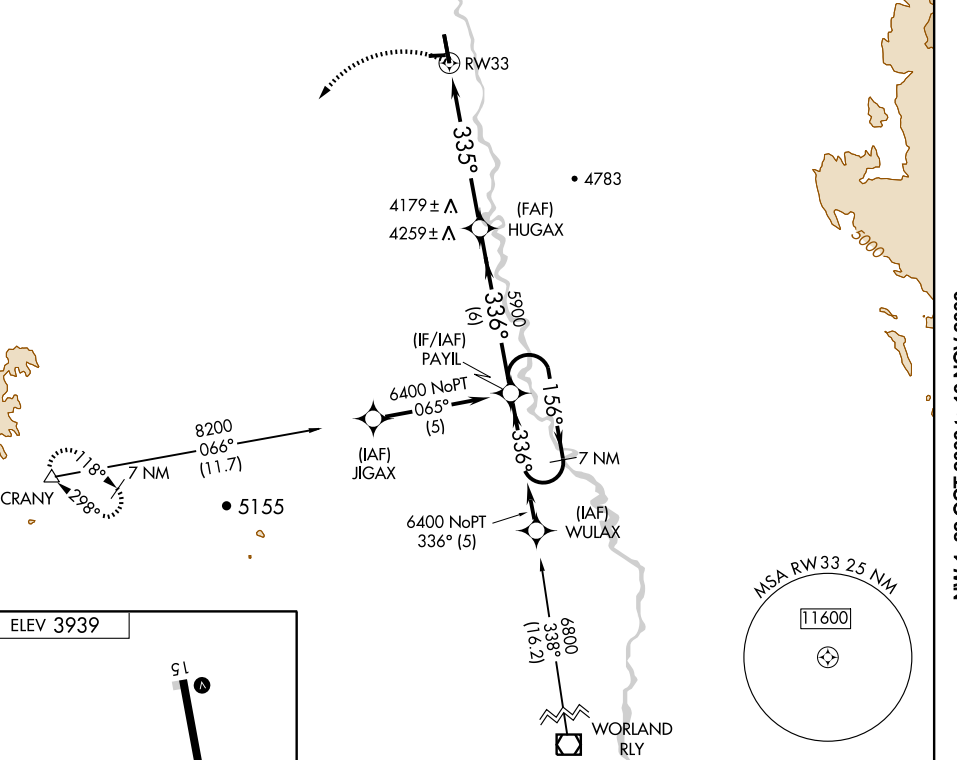
▼





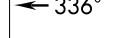

▲

DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Worland Muni altimeter setting and increase all MDAs 120 feet.
VDP NA when using Worland altimeter setting.
Circling to Rwy 7/25 NA at night.

MISSED APPROACH: Climbing left turn to 9000 direct CRANY and hold, continue climb-in-hold to 9000.

ASOS 135.325	SALT LAKE CENTER 133.25 285.6	CTAF 122.9 0
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<div>9000</div> <div></div>		<div>CRANY</div> <div>△</div>		<div>PAYIL</div> <div>7 NM Holding Pattern</div>	
<div></div> <div>RW33</div>		<div>1.5 NM to RW33</div> <div></div> <div>335°</div>		<div>HUGAX</div> <div></div> <div>336°</div>	
<div></div> <div>156°</div>		<div></div> <div>336°</div>		<div>6400</div>	
<div>1.5</div>		<div>4.5 NM</div>		<div>6 NM</div>	
CATEGORY	A		B	C	D
LNAV MDA	4440-1		527 (600-1)	4440-1½ 527 (600-1½)	4440-1¾ 527 (600-1¾)
CIRCLING	4500-1 561 (600-1)		4580-1 641 (700-1)	4660-2 721 (800-2)	5040-3 1101 (1200-3)

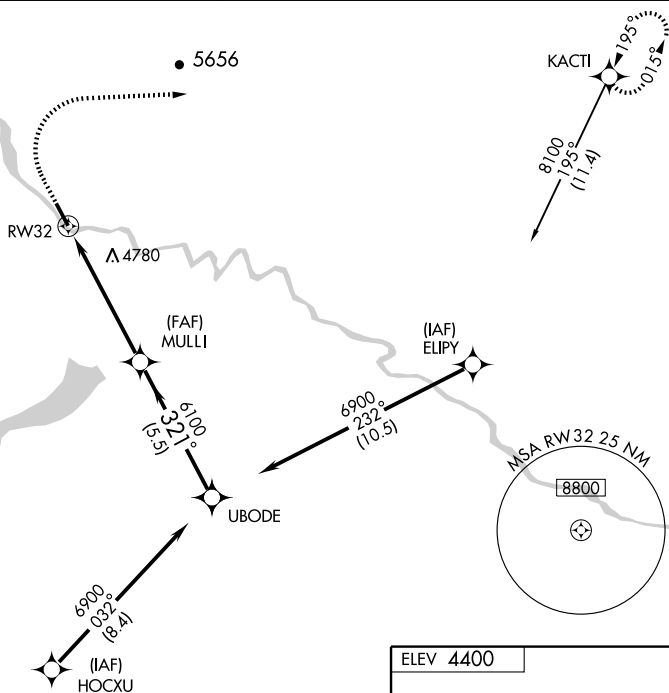
GPS RWY 32

GUERNSEY/CAMP GUERNSEY (7V6)

APP CRS	Rwy Idg	5510
321°	TDZE	4374
	Apt Elev	4400

T	Obtain local altimeter setting on UNICOM, when not
A NA	received use Scottsbluff, NE altimeter setting. Descent angle NA when using Scottsbluff altimeter setting.

MISSED APPROACH: Climb to 5600 then climbing right turn to 8100 direct KACTI WP and hold.

DENVER CENTER
135.6 363.025UNICOM
122.7 (CTAF) **L**

NW-1. 22 OCT 2009 to 19 NOV 2009

5600



8100



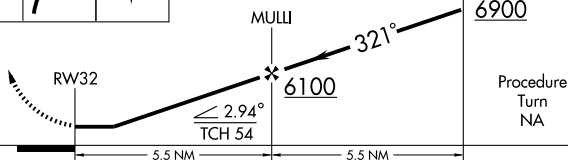
KACTI



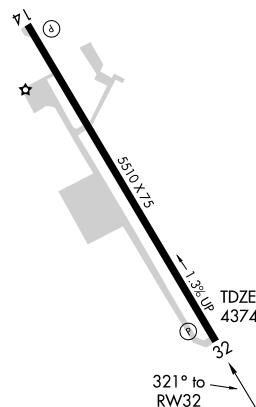
VGSI and descent
angles not coincident.

UBODE

ELEV 4400



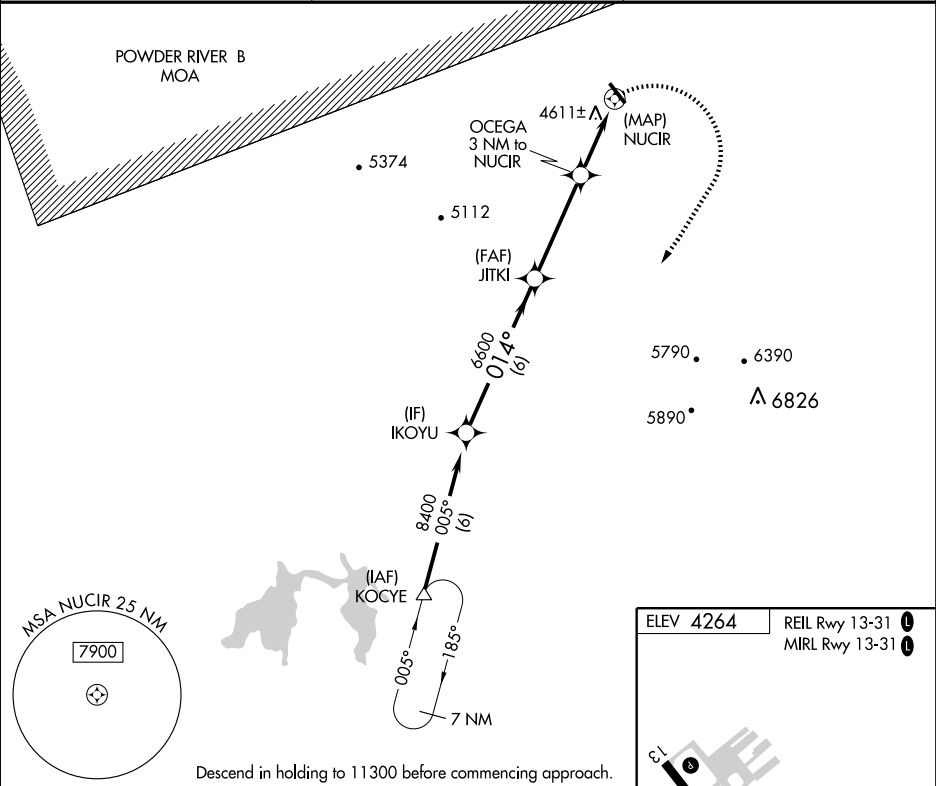
CATEGORY	A	B	C	D
S-32	5040-1	666 (700-1)	5040-1 $\frac{3}{4}$ 666 (700-1 $\frac{3}{4}$)	5040-2 666 (700-2)
CIRCLING	5340-1 $\frac{1}{4}$ 940 (1000-1 $\frac{1}{4}$)	5340-1 $\frac{1}{2}$ 940 (1000-1 $\frac{1}{2}$)	5420-3	1020 (1100-3)
SCOTTSBLUFF, NE ALTIMETER SETTING MINIMUMS				
S-32	5240-1	866 (900-1)	5240-2 $\frac{3}{4}$	866 (900-2 $\frac{3}{4}$)
CIRCLING	5540-1 $\frac{1}{4}$ 1140 (1200-1 $\frac{1}{4}$)	5540-1 $\frac{1}{2}$ 1140 (1200-1 $\frac{1}{2}$)	5620-3	1220 (1300-3)

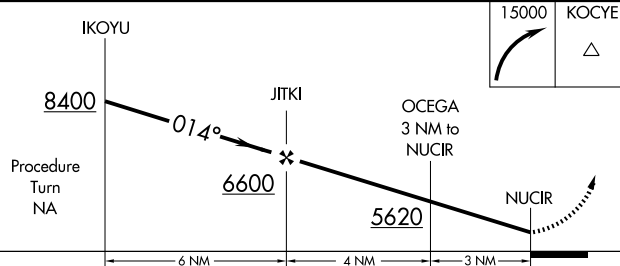
MIRL Rwy 14-32 **L**

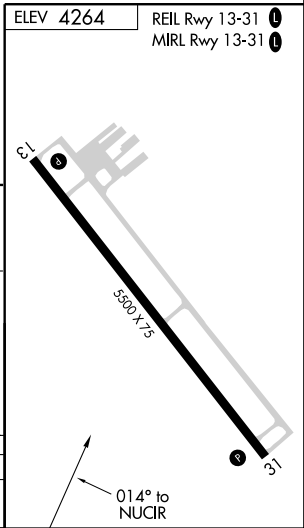
APP CRS	Rwy Idg	N/A
014°	TDZE	N/A
	Apt Elev	4264

Procedure NA at night. DME/DME RNP -0.3 NA. If local altimeter setting not received, use Gillette altimeter setting and increase all MDAs 120 feet.	MISSED APPROACH: Climbing right turn to 15000 direct KOCYE and hold, continue climb-in-hold to 15000.
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AWOS-3 128.755	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
CIRCLING	4920-1 656 (700-1)	5060-1¼ 796 (800-1¼)	NA	



AIRPORT DIAGRAM

AL-504 (FAA)

JACKSON HOLE (JAC)
JACKSON, WYOMING

ATIS 120.625
JACKSON TOWER ★
118.075
GND CON
124.55



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

RWY 1-19
S75, D200, ST175, DT380

FIELD
ELEV
6451

186.4°

61

A4

CONTROL
TOWER ★
6506

43°36.5'N

6300 X 150

TERMINAL

HANGARS

006.4°
0.6% UP

ELEV
6413

43°36'N

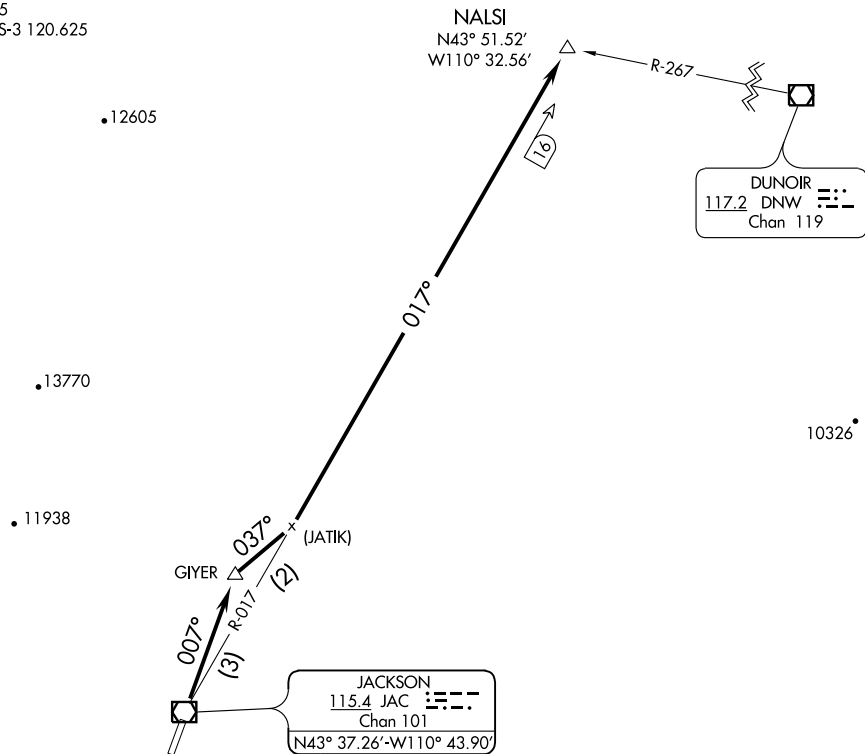
110°44.5'W

110°44'W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS
IS REQUIRED.

GEYSER FOUR DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 450' per NM to 14000, or 4400-3 for climb in visual conditions.

Rwy 19: Not authorized - ATC.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 14000' via JAC R-007 to GIYER/JAC 3 DME, then right turn heading 037° to intercept JAC R-017 to NALSI INT/JAC 16 DME; or for climb visual conditions: Cross JAC VOR/DME northbound at or above 10800 then climb to 14000 via JAC R-017 to NALSI INT/JAC 16 DME.

LOC/DME I-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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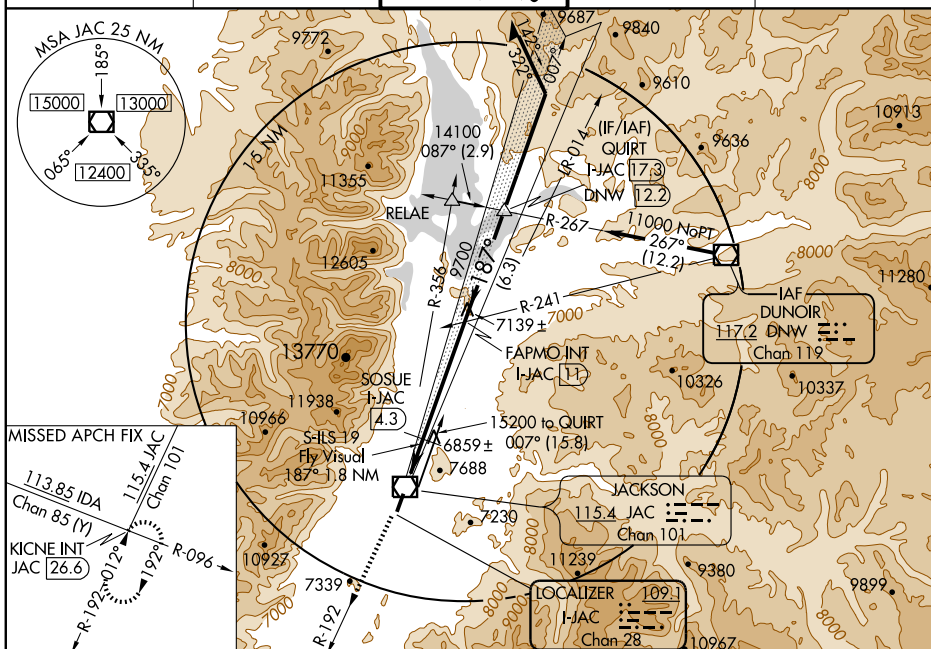
ILS or LOC Y RWY 19
JACKSON HOLE (JAC)

T	Inoperative table does not apply.
A NA	Circling NA east of Rwy 1-19.

MALS

MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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ELEV 6451

187° 9.8 NM from FAF

6477 Δ

6300 X 130

0.6% UP

TWR 6506 ☆

6466 ± Δ

TDZE 6451

HRL Rwy 1-19

FAF to MAP 9.8 NM

Knots	60	90	120	150	180
Min:Sec	9:48	6:32	4:54	3:55	3:16

LOC only

KICNE INT JAC 26.6

S-ILS 19 Fly Visual 187° 1.8 NM

SOSUE I-JAC 4.3

FAPMO INT I-JAC 11

QUIRT I-JAC 17.3

14100

11000

7500*

9700

9700

2.5 NM 0.6 6.7 NM 6.3 NM

Remain within 10 NM

007°

187°

13100

Use I-JAC DME when on LOC course.

GS 3.00% TCH 50

CATEGORY	A	B	C	D
S-ILS 19	7063-2 612 (700-2)			
S-LOC 19	7500-1¼ 1049 (1100-1¼)	7500-1½ 1049 (1100-1½)	7500-3	1049 (1100-3)
CIRCLING	7500-1¼ 1049 (1100-1¼)	7500-1½ 1049 (1100-1½)	7500-3	1049 (1100-3)

SOSUE FIX MINIMUMS

	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)
S-LOC 19	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)
CIRCLING	7300-1 849 (900-1)	7300-1¼ 849 (900-1¼)	7300-2½ 849 (900-2½)	7300-2¾ 849 (900-2¾)

LOC/DME I-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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ILS or LOC Z RWY 19
JACKSON HOLE (JAC)

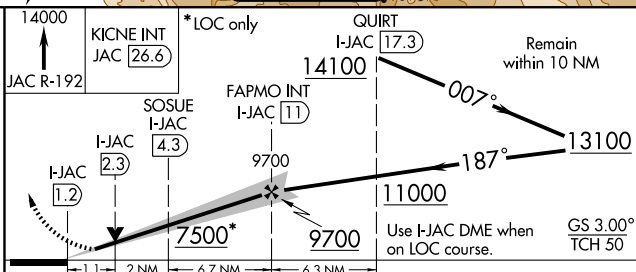
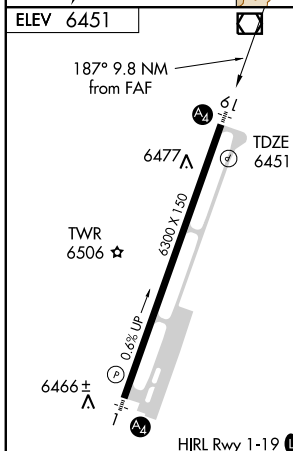
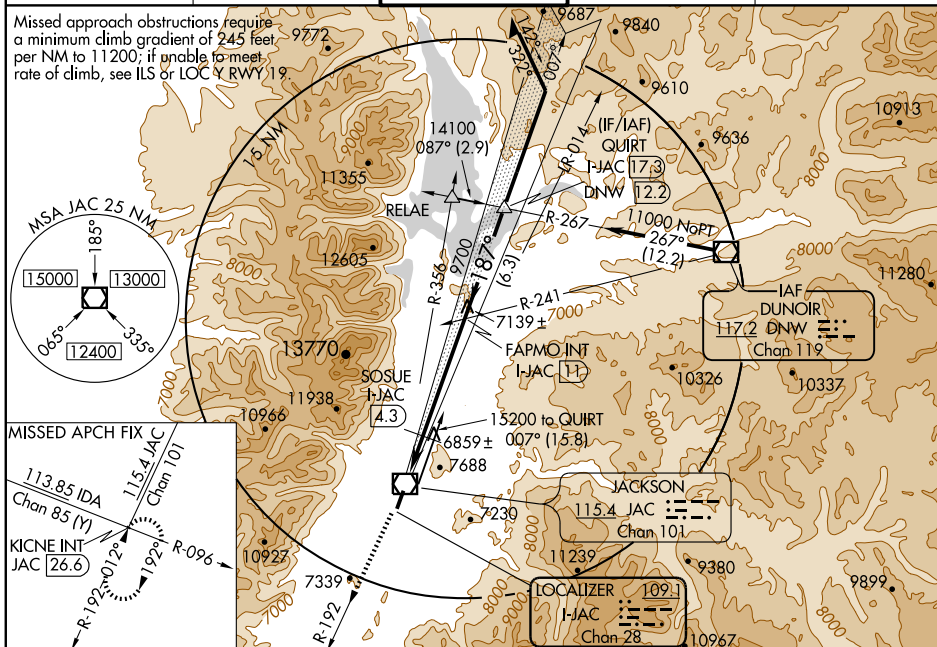
T
A NA Inoperative table does not apply to S-LOC 19.
Circling NA east of Rwy 1-19.

MALS

MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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Missed approach obstructions require a minimum climb gradient of 245 feet per NM to 11 200; if unable to meet rate of climb, see ILS or LOC & RWY 19



CATEGORY	A	B	C	D
S-ILS 19	6651- ³ / ₄ 200 (200- ³ / ₄)			
S-LOC 19	7500-1 ¹ / ₄ 1049 (1100-1 ¹ / ₄)	7500-1 ¹ / ₂ 1049 (1100-1 ¹ / ₂)	7500-3 1049 (1100-3)	
CIRCLING	7500-1 ¹ / ₄ 1049 (1100-1 ¹ / ₄)	7500-1 ¹ / ₂ 1049 (1100-1 ¹ / ₂)	7500-3 1049 (1100-3)	
SOSUE FIX MINIMUMS				
S-LOC 19	6840- ³ / ₄ 389 (400- ³ / ₄)			6840-1 ¹ / ₄ 389 (400-1 ¹ / ₄)
CIRCLING	6840-1 389 (400-1)	6920-1 469 (500-1)	6920-1 ¹ / ₂ 469 (500-1 ¹ / ₂)	7080-2 629 (700-2)

WAAS CH 58299 W01A	APP CRS 006°	Rwy Idg TDZE Apt Elev	6300 6431 6451
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RNAV (GPS) X RWY 1
JACKSON HOLE (JAC)

⚠ Circling NA east of Rwy 1-19. Inoperative table does not apply.

⚠ If local altimeter setting not received, procedure NA.

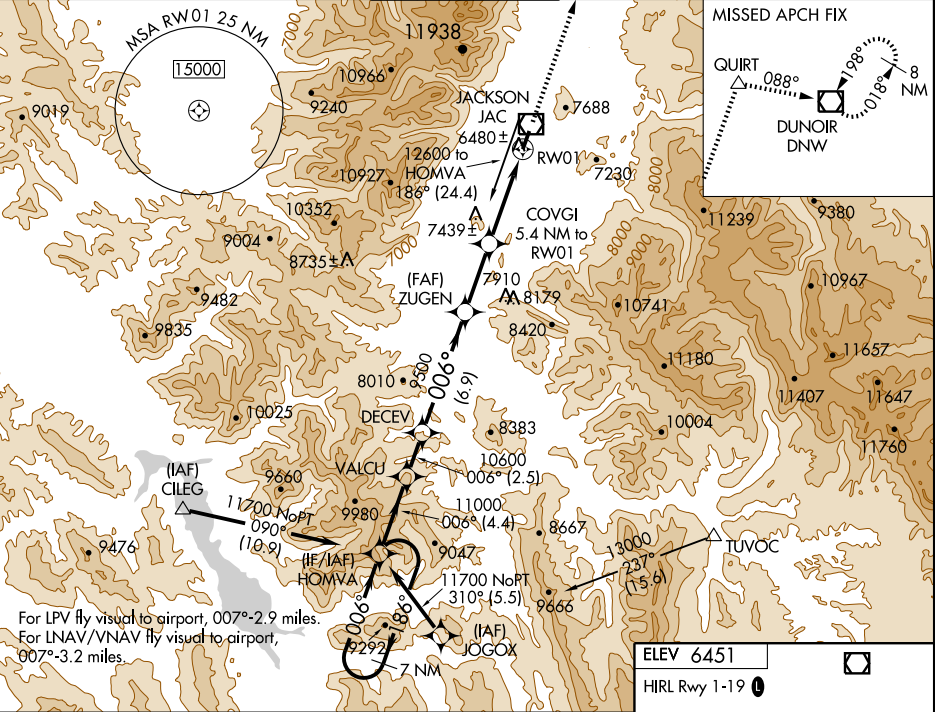
Baro-VNAV NA below -27°C (-16°F). DME/DME RNP-0.3 NA.

MALS

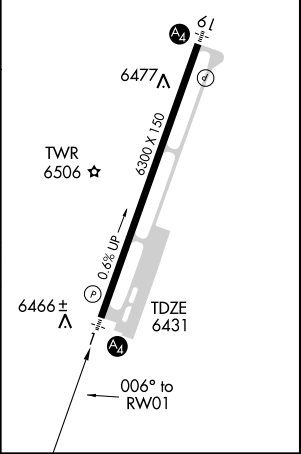
⚠

MISSED APPROACH: Climb to 14000 direct QUIRT and via 088° track to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) ⚠	GND CON 124.55	UNICOM 122.95
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7 NM Holding Pattern		HOMVA		*LNAV only		14000		QUIRT		088° track		DNW	
		VALCU		DECEV		ZUGEN		COVGI		5.4 NM to RW01		LPV fly visual, 007°-2.9 miles.	
11700		1186°		006°		11000		10600		9500		8200	
GS 3.00°		TCH 50		4.4 NM		2.5 NM		6.9 NM		3.9		1.7	
CATEGORY		A		B		C		D					
LPV DA				7393-2		962 (1000-2)							
LNAV/VNAV DA		7470-2		1039 (1100-2)		7470-3		1039 (1100-3)					
LNAV MDA		7640-1¼ 1209 (1200-1¼)		7640-1½ 1209 (1200-1½)		7640-3		1209 (1200-3)					
CIRCLING		7640-1¼ 1189 (1200-1¼)		7640-1½ 1189 (1200-1½)		7640-3		1189 (1200-3)					

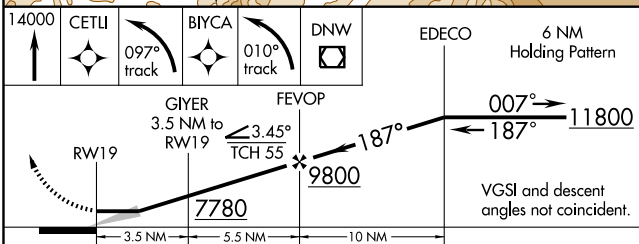
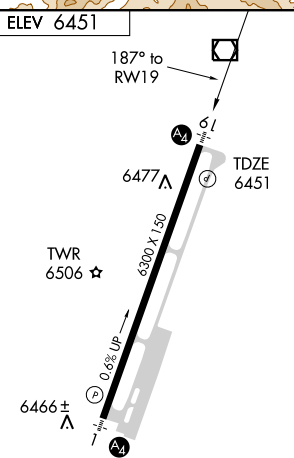
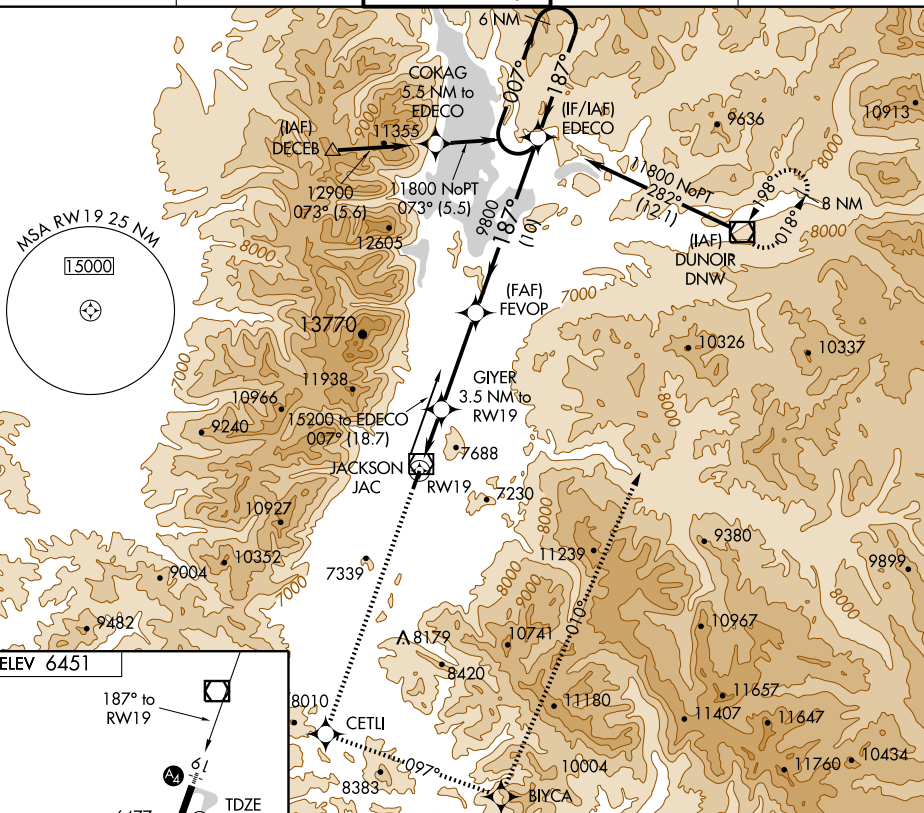


APPROACH: Climb to 14000 direct CETU and left 097° track to BIYCA and left turn via 010° track to OR/DME and hold.

T Circling NA east of Rwy 1-19. DME/DME RNP- 0.3 NA.
A Inoperative table does not apply.
If local altimeter setting not received, procedure NA.

MALS

MISSED APPROACH: Climb to 14000 direct CETU and left turn via 097° track to BIYCA and left turn via 010° track to DNW VOR/DME and hold.

UNICOM
122.95

CATEGORY	A	B	C	D
LNAV MDA	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)
CIRCLING	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)

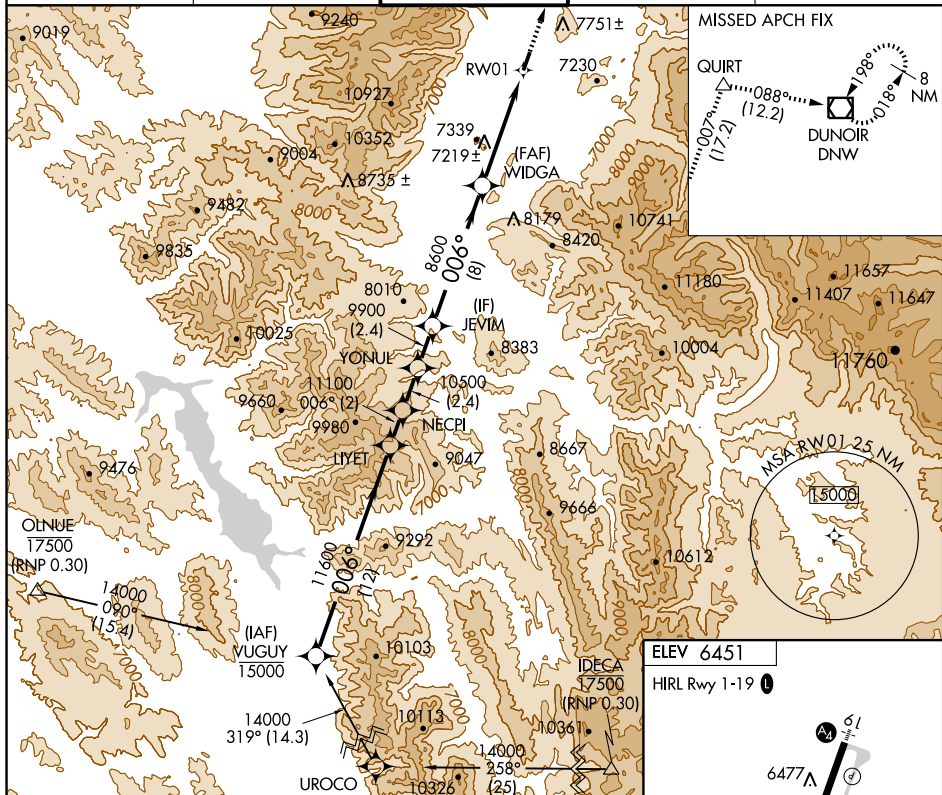
APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Y RWY 1

JACKSON HOLE (JAC)

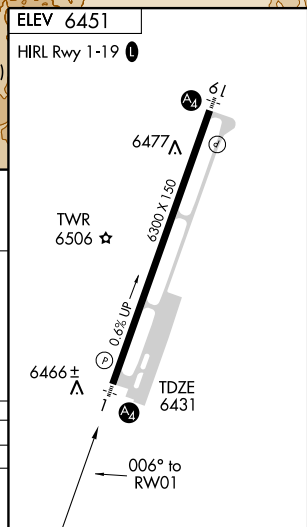
<p>GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). Inoperative table does not apply. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night.</p>	<p>MAIS</p> <p></p>	<p>MISSED APPROACH: Climb to 14000 via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.</p>
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ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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VUGUY	LIYET	NECPI	YONUL	JEVIM	WIDGA	RW01
14000	11600	11100	10500	9900	8600	8600
Procedure Turn NA						
GP 3.00°						
TCH 50						
12 NM	2 NM	2.4	2.4	8 NM	6.6	
CATEGORY	A	B	C	D		
RNP 0.3 DA	7364-4	933 (1000-4)				

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Z RWY 1

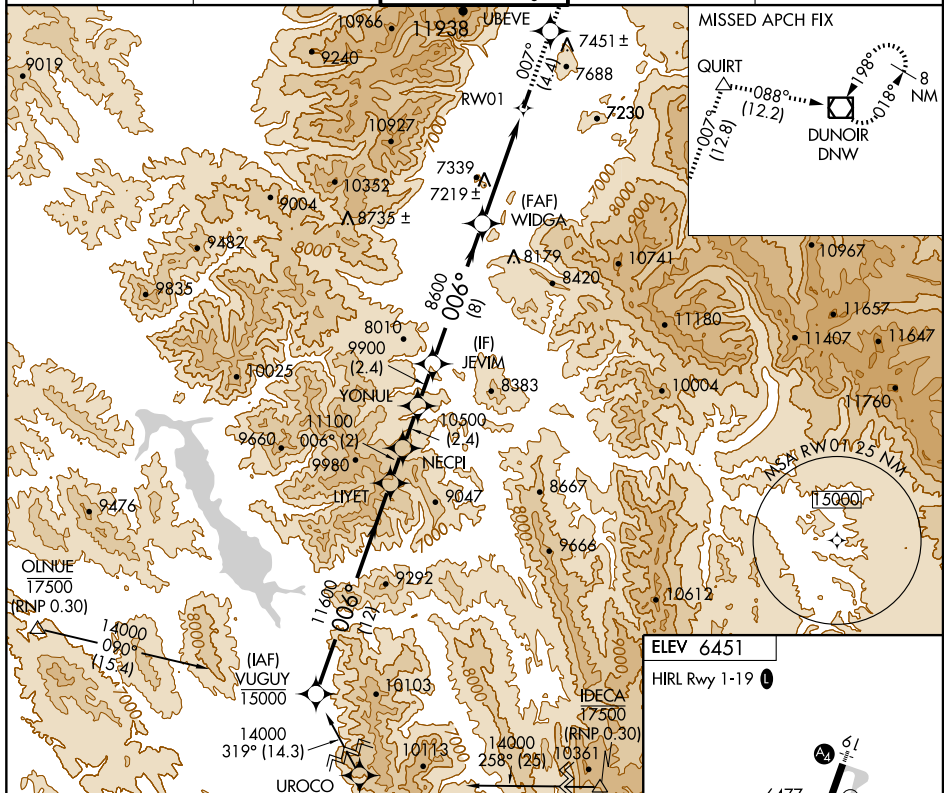
JACKSON HOLE (JAC)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). For inoperative MALS, increase RNP 0.30 visibility all cats to 1½. Visibility reduction by helicopters NA. When VGSi inoperative, procedure NA at night. Missed approach requires RNP less than 1.0 and minimum climb of 280 feet per NM to 8100; if unable, see RNAV (RNP) Y RWY 1.



MISSED APPROACH: Climb to 14000 via track 007° to UBEVE and via 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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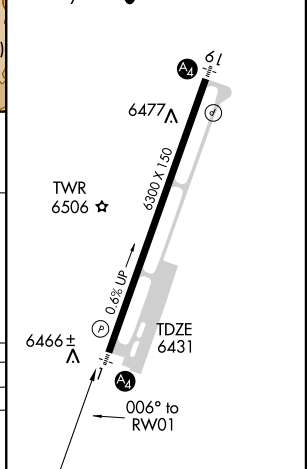


VUGUY	LYET	UBEVE	QUIRT	088°	DNW
14000	11600	11100	10500	9900	8600
Procedure Turn NA					
GP 3.00°					
TCH 50					
12 NM	2 NM	2.4	2.4	8 NM	6.6
CATEGORY	A	B	C	D	
RNP 0.3 DA	6811-1	380 (400-1)		NA	

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 6451

HIRL Rwy 1-19



APP CRS	Rwy Idg	6300
187°	TDZE	6451
	Apt Elev	6451

RNAV (RNP) Z RWY 19

JACKSON HOLE (JAC)

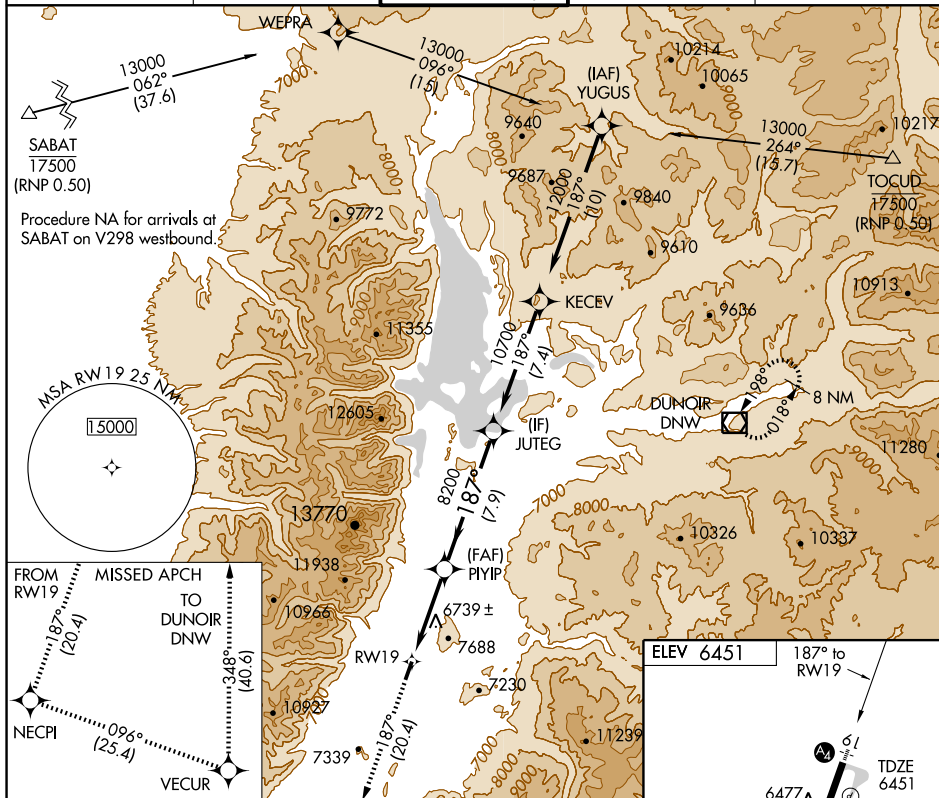
T GPS required. For uncompassed Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 35°C (96°F). For inoperative MALS, increase RNP 0.30 all cats visibility to 1½. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night.

MALS



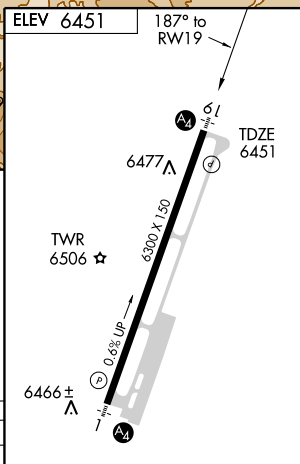
MISSED APPROACH: Climb to 14000 via 187° track to NECPI and via 096° track to VECUR and via left turn on track 348° to DNW VOR/DME and hold.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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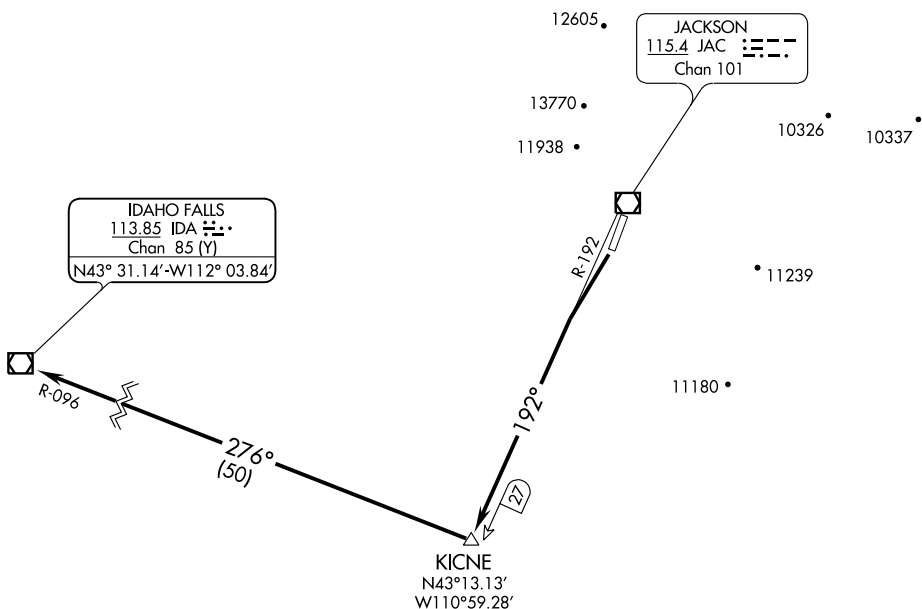
14000 187° trk	NECPI	096° trk	VECUR	348° trk	DNW	Procedure Turn NA
						JUTEG
						10700
						8200
						GP 3.00° TCH 53
						5.3 NM
						7.9 NM
CATEGORY	A	B	C	D		
RNP 0.3 DA	6856-1¼	405 (500-1¼)		NA		

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



HIRL Rwy 1-19

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625



TAKE-OFF MINIMUMS:

Rwy 19: Standard with minimum climb of 335' per NM to
14000 or 4400-3 for climb in visual conditions.
Rwy 1: Not authorized - ATC.

NOTE: Rwy 19, Bush 485 feet from departure end of runway, 513 feet right of centerline, 6428' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19: Climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME; or for climb in visual conditions: cross JAC VOR/DME southbound at or above 10800, then climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME.

VOR/DME JAC	APP CRS	Rwy Idg	6300
115.4	008°	TDZE	6431
Chan 101		Apt Elev	6451

⚠

Circling NA east of Rwy 1-19.

⚠

Inoperative table does not apply.

⚠

If local altimeter setting not received, procedure NA.

MALS

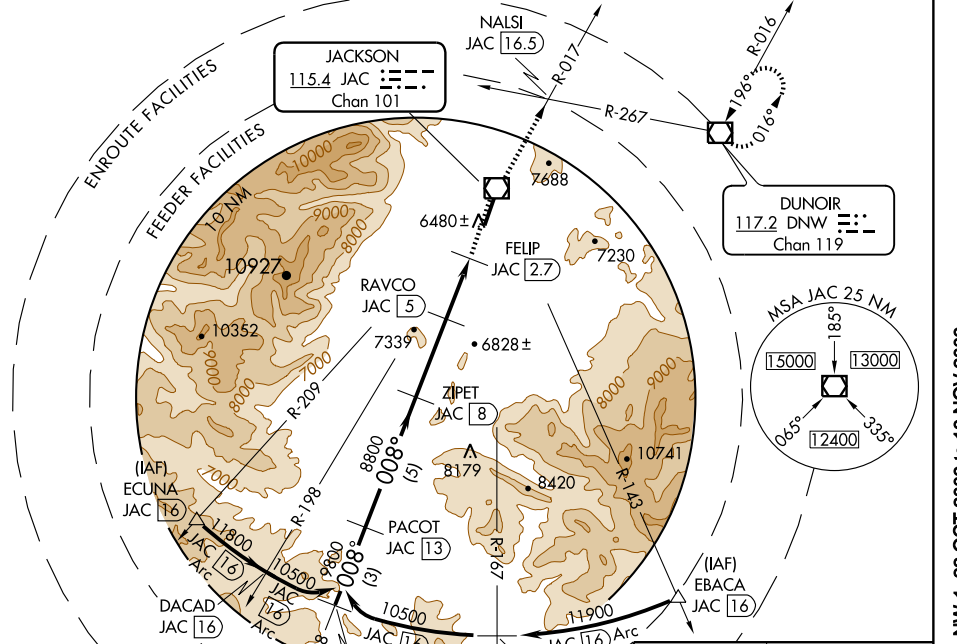
⏏

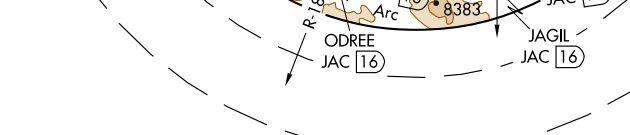
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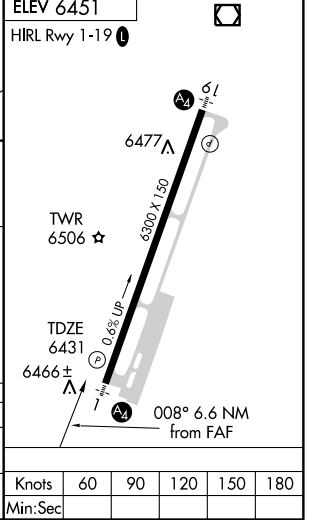
⏏

MISSED APPROACH: Climb to 14000 direct JAC VOR/DME, and via JAC R-017 to NALSJ Int/JAC 16.5 DME, and right turn via DNW R-267 to DNW VOR/DME and hold.

ATIS	SALT LAKE CENTER	JACKSON TOWER*	GND CON	UNICOM
120.625	133.25 285.6	118.075 (CTAF) ⏏	124.55	122.95



							
Procedure Turn NA	ODREE JAC 16	PACOT JAC 13	14000 ↑ JAC 115.4	JAC R-017 115.4	NALSJ JAC 16.5	DNW R-267	DNW 117.2
10500	008°	9800	8800	3.33° TCH 50	7720	JAC 4.3	FELIP JAC 2.7
VGSJ and descent angles not coincident							
3 NM		5 NM		3 NM	0.7	1.6 NM	1.3 NM
CATEGORY	A		B		C		D
S-1	7380-1½ 949 (1000-1½)		7380-2¾ 949 (1000-2¾)		7380-3 949 (1000-3)		7380-3 949 (1000-3)
CIRCLING	7380-1½ 929 (1000-1½)		7380-2¾ 929 (1000-2¾)		7380-3 929 (1000-3)		7380-3 929 (1000-3)



VOR/DME JAC 115.4 Chan 101	APP CRS 193°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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VOR/DME RWY 19
JACKSON HOLE (JAC)

JACKSON HOLE (JAC)

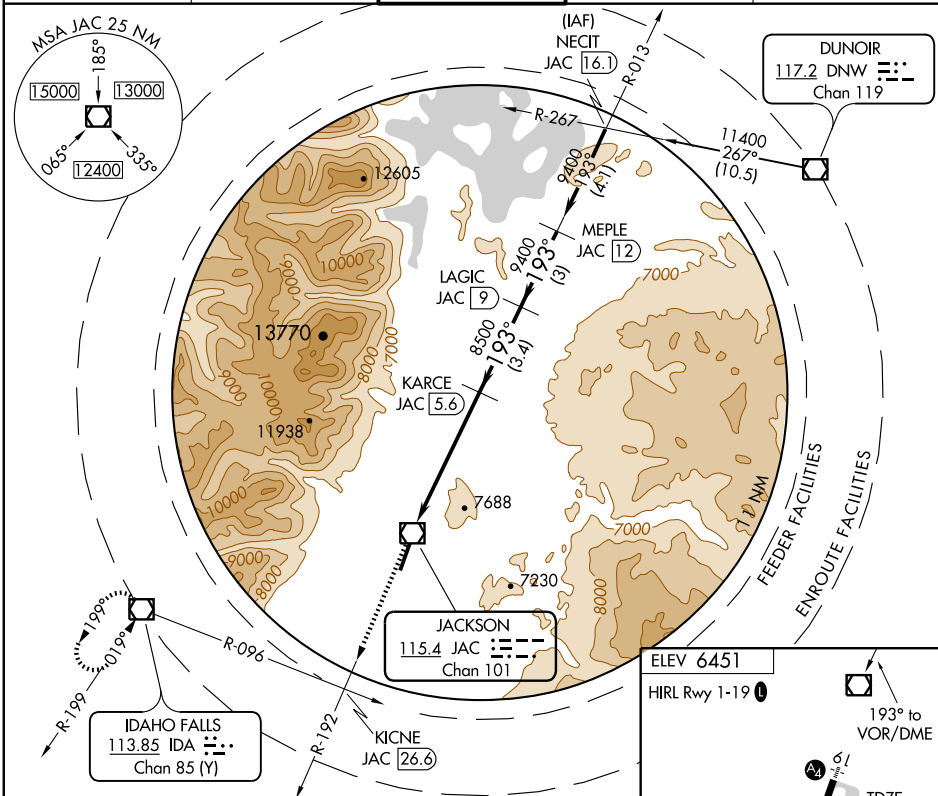
T	Circling NA east of Rwy 1-19.
A	Inoperative table does not apply. If local altimeter setting not received, procedure NA.

MALS

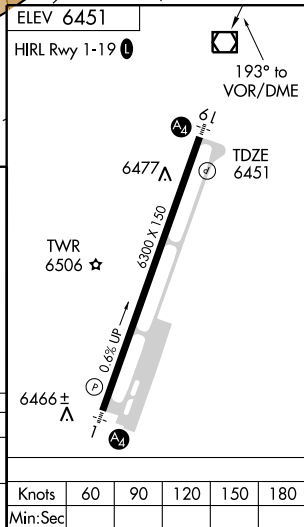


MISSED APPROACH: Climb to 14000 via JAC R-192 to KICNE INT/JAC 26.6 DME, and right turn via IDA R-096 to IDA VOR/DME and hold

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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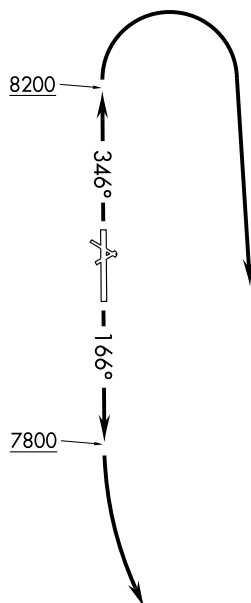


14000 JAC R-192	KICNE JAC 26.6	 IDA R-096	IDA 113.85	KARCE JAC 5.6	LAGIC JAC 9	MEPLE JAC 12
CATEGORY	A		B		C	D
S-19	7840-1¼ 1389 (1400-1¼)		7840-1½ 1389 (1400-1½)		7840-3	1389 (1400-3)
CIRCLING	7840-1¼ 1389 (1400-1¼)		7840-1½ 1389 (1400-1½)		7840-3	1389 (1400-3)



KEMRR TWO DEPARTURE (RNAV)

SALT LAKE CITY CENTER
124.35 353.5
SALT LAKE CITY DEP CON
124.3 322.3

TAKE-OFF MINIMUMS

Rwy 4, 10, 22, 28: NA - Rwy Surfaces.

Rwy 16, 34: Standard.

NOTE: 1. GPS Required.
2. RNAV 1.

NOTE: Chart not to scale.

FORT BRIDGER
FBR



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 7800 via heading 166° then climbing left turn to 12000 (or assigned altitude) . . .

TAKE-OFF RUNWAY 34: Climb to 8200 via heading 346° then climbing right turn to 12000 (or assigned altitude) . . .

. . . direct FBR VOR/DME then via assigned route/fix.

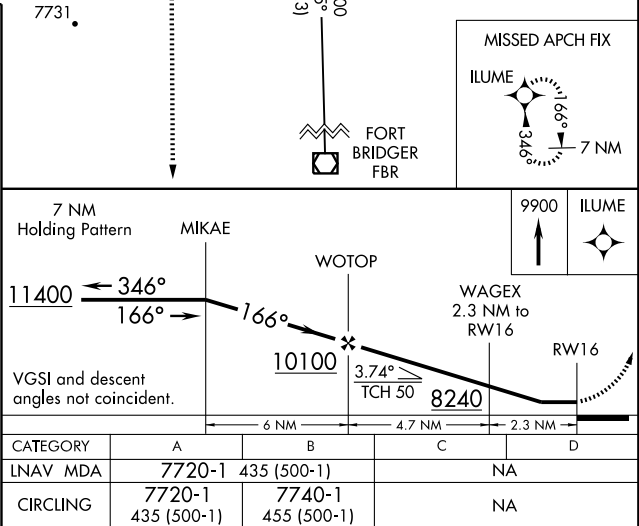
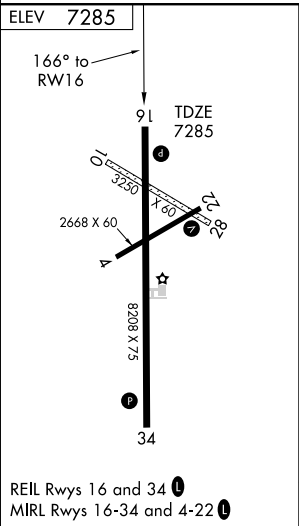
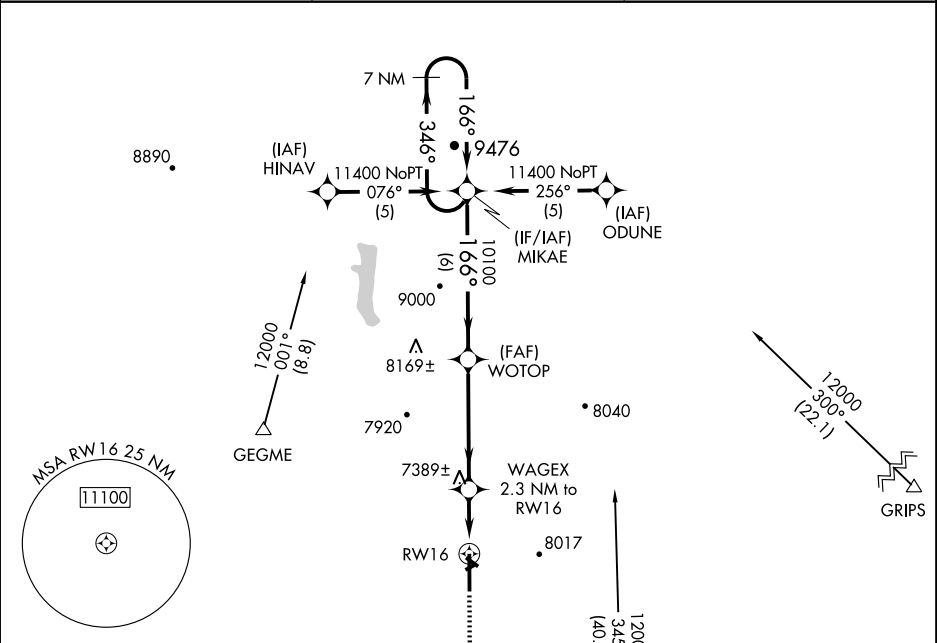
APP CRS	Rwy Idg	8208
166°	TDZE	7285
	Apt Elev	7285

RNAV (GPS) RWY 16

KEMMERER MUNI (EMM)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.	MISSED APPROACH: Climb to 9900 direct ILUME and hold.
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AWOS-3 119.675	SALT LAKE CITY CENTER 124.35 353.5	UNICOM 122.8 (CTAF)
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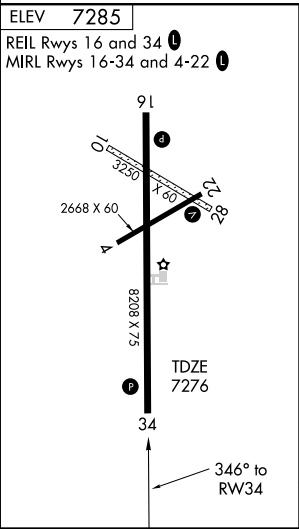
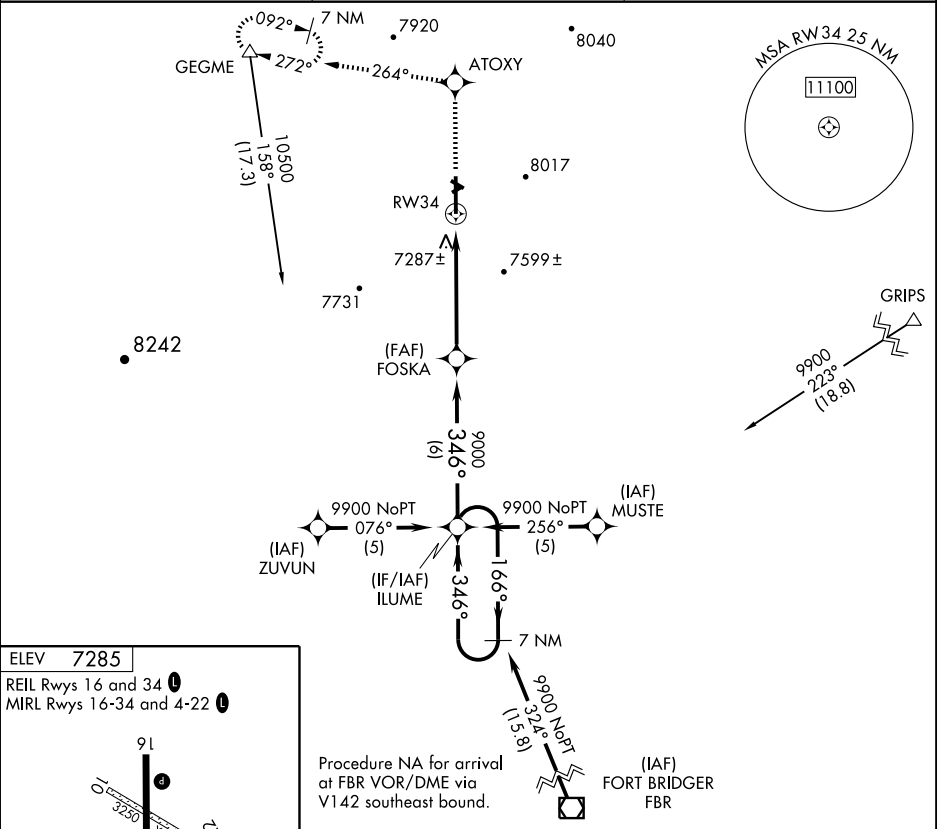


APP CRS	Rwy Idg	8208
346°	TDZE	7276
	Apt Elev	7285

RNAV (GPS) RWY 34
KEMMERER MUNI (EMM)

<p>▼ ▲ NA</p>	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.	MISSED APPROACH: Climb to 12000 direct ATOXY and via track 264° to GEGME and hold, continue climb-in-hold to 12000. When authorized by ATC, climb-in-hold to 14000.
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AWOS-3 119.675	SALT LAKE CITY CENTER 124.35 353.5	UNICOM 122.8 (CTAF) 0
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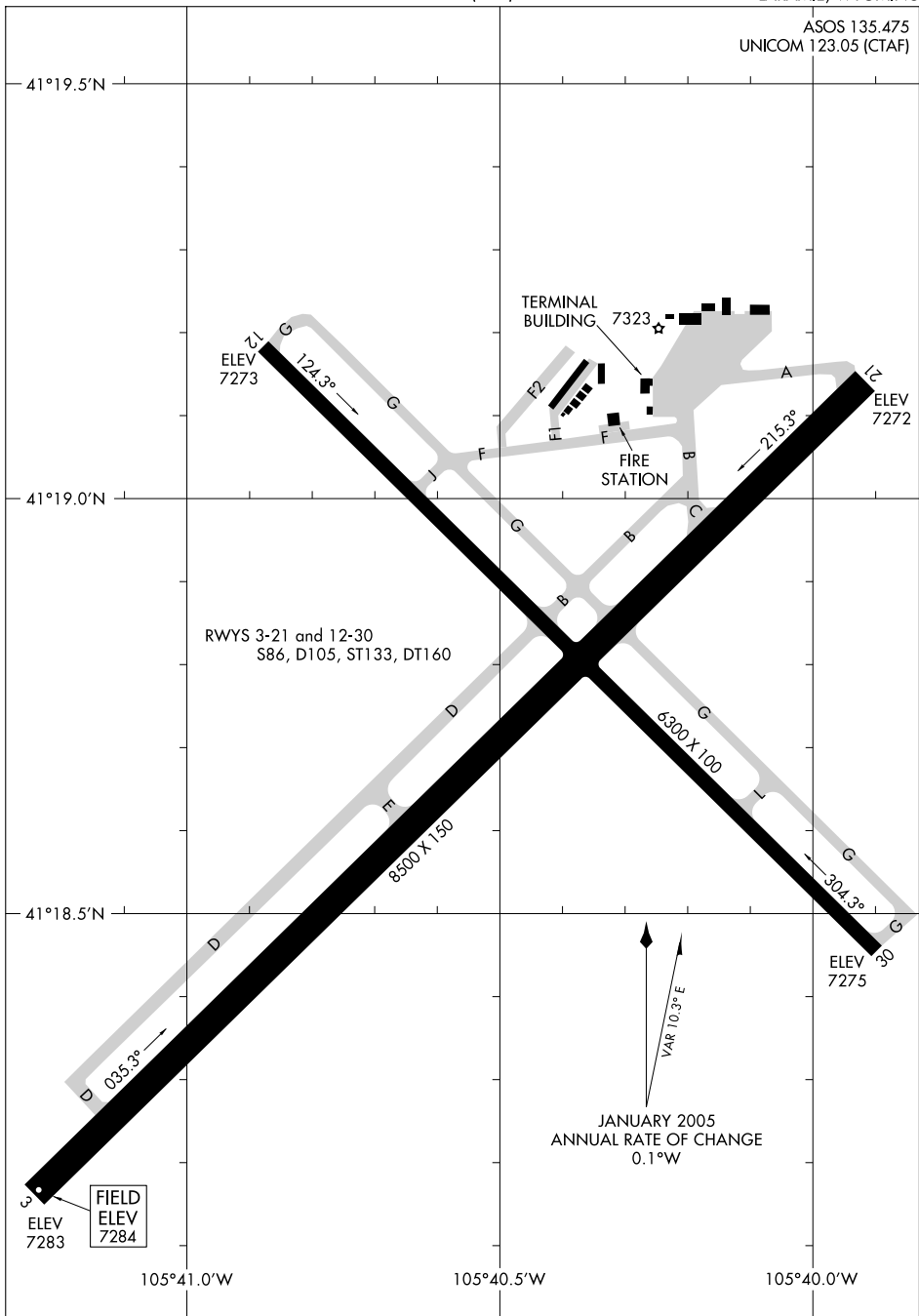
12000	ATOXY	trk 264°	GEGME	ILUME	7 NM Holding Pattern
↑	✧		△		
CATEGORY	A	B	C	D	
LNAV MDA	7540-1	264 (300-1)	NA	NA	
CIRCLING	7640-1 355 (400-1)	7740-1 455 (500-1)	NA	NA	

AIRPORT DIAGRAM

AL-225 (FAA)

LARAMIE RGNL (LAR)
LARAMIE, WYOMING

ASOS 135.475
UNICOM 123.05 (CTAF)



NW-1: 22 OCT 2009 to 19 NOV 2009

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

WAAS
CH 70600
W12A

APP CRS
122°

Rwy Idg	6300
TDZE	7275
Apt Elev	7284

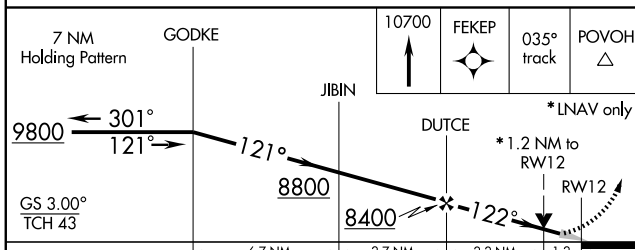
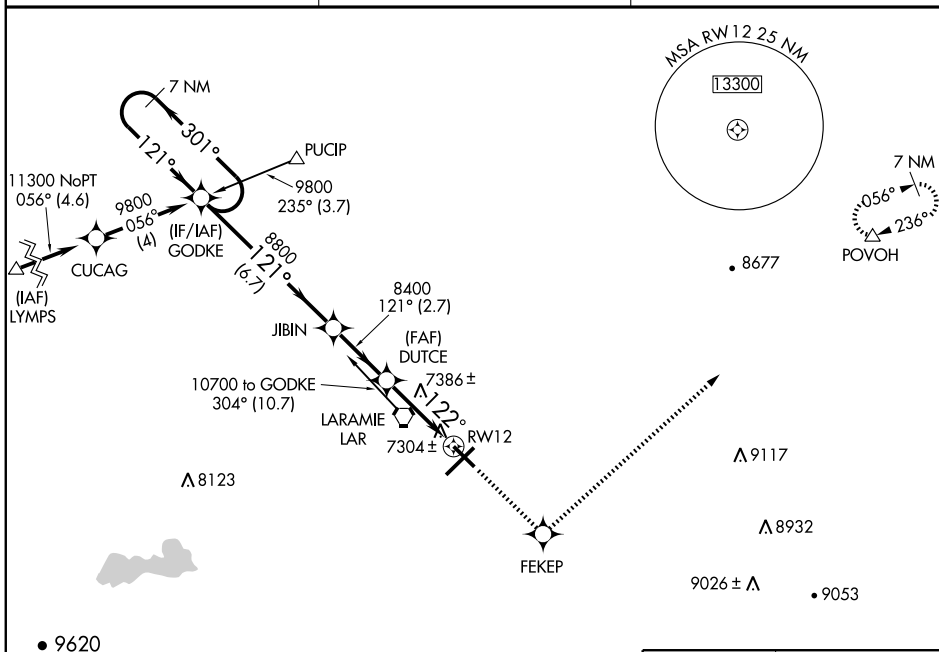
RNAV (GPS) RWY 12
LARAMIE RGNL (LAR)

LARAMIE RGNL (LAR)

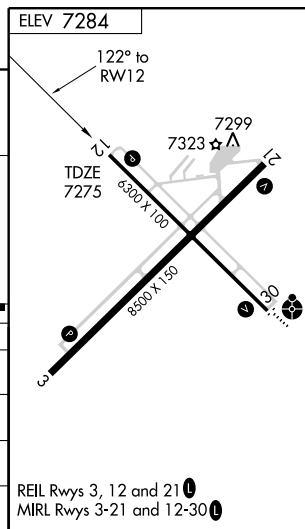
DME/DME RNP -0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F).

MISSED APPROACH: Climb to 10700 direct FEKEP and via 035° track to POVOH and hold.

ASOS
135.475DENVER CENTER
125.9 284.7UNICOM
123.05 (CTAF) **L**

CATEGORY		A		B		C		D	
LPV	DA	7525-1 250 (300-1)							
LNAV/ VNAV	DA	7622-1¼ 347 (400-1¼)							
LNAV	MDA	7700-1 425 (500-1)				7700-1¼ 425 (500-1¼)			
CIRCLING		7700-1¼ 416 (500-1¼)	7740-1¼ 456 (500-1¼)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)				



VORTAC LAR <u>117.6</u> Chan 123	APP CRS 107°	Rwy Idg 6300 TDZE 7275 Apt Elev 7284
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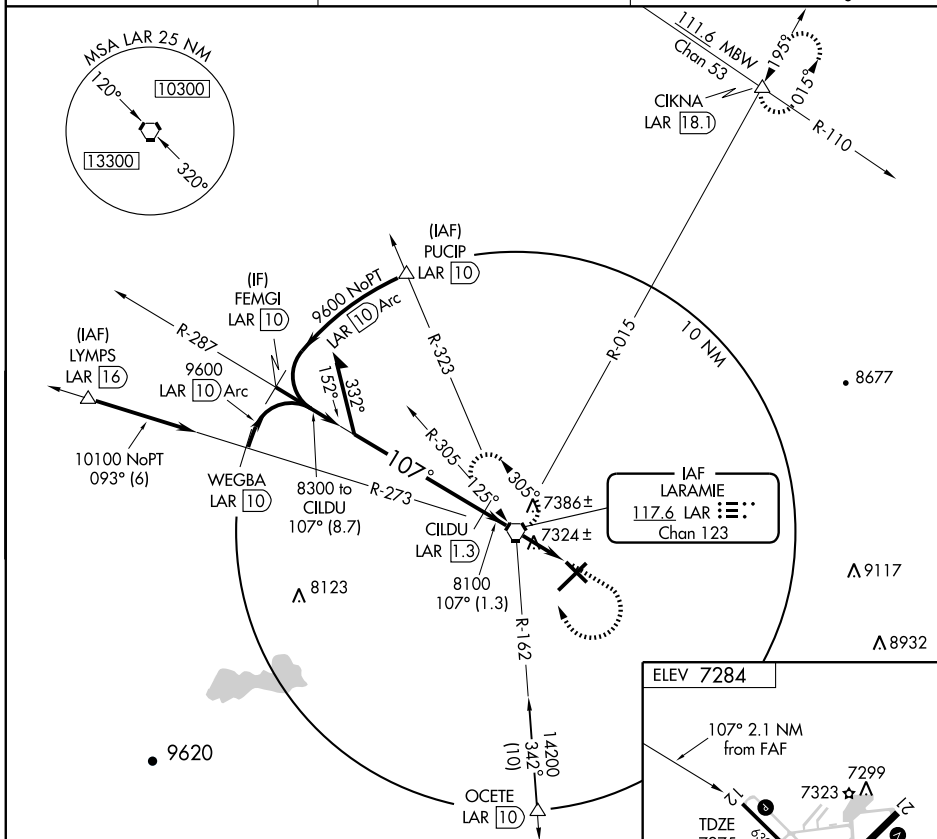

VOR/DME or TACAN RWY 12

LARAMIE RGNL (LAR)

MISSED APPROACH: Climb to 7700 then climbing right turn to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA/18.1 DME and hold north, left turn, 195° inbound).

ASOS
135.475

DENVER CENTER
125.9 284.7

UNICOM
123.05 (CTAF) 

NW-1. 22 OCT 2009 to 19 NOV 2009

Remain within 10 NM

VORTAC

287°

107°

9600

8300

8100*

3.53°

TCH 43

VGSI and descent angles not coincident.

7700

9500

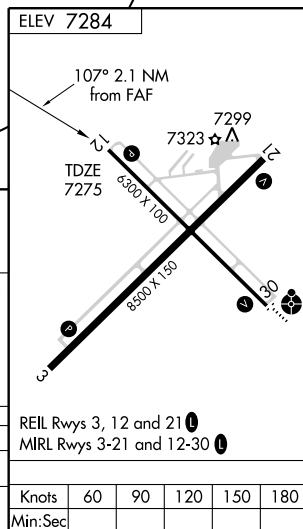
LAR

117.6

LAR 1.3

LAR 2.1

CATEGORY	A	B	C	D
S-12	7580-1 305 (300-1)			
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)



VORTAC LAR <u>117.6</u> Chan 123	APP CRS 292°	Rwy Idg TDZE Apt Elev	6300 7278 7284
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VOR/DME or TACAN RWY 30

LARAMIE RGNL (LAR)



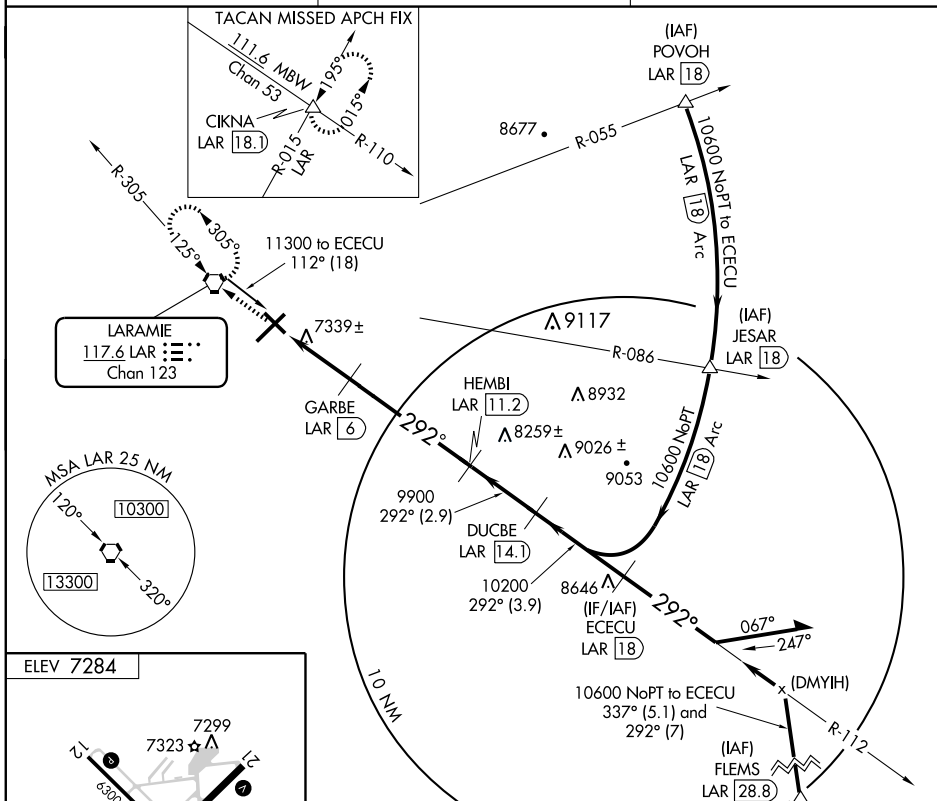
ODALS



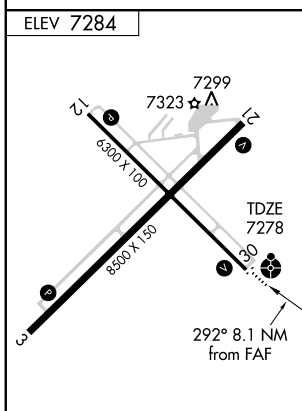
MISSED APPROACH: Climb to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA INT/18.1 DME and hold north, left turns, 195° inbound.

ASOS
135.475DENVER CENTER
125.9 284.7

UNICOM
123.05 (CTAF) 



ELEV 7284



REIL Rwy 3, 12 and 21 **L**
MIRL Rwy 3-21 and 12-30 **L**

						S-30	7600-3/4 322 (400-3/4)			7600-1 322 (400-1)
Knots	60	90	120	150	180	CIRCLING	7660-1	7740-1	7740-1½	7840-2
Min:Sec							376 (400-1)	456 (500-1)	456 (500-1½)	556 (600-2)

VOR ECS	APP CRS	Rwy Idg	5300
<u>108.2</u>	323°	TDZE	4174
		Apt Elev	4174

VOR or GPS RWY 31
NEWCASTLE/MONDELL FIELD (ECS)

NEWCASTLE/MONDELL FIELD (ECS)

T Circling east of Rwy 13-31 not authorized. Obtain local
A altimeter setting on CTAF when not received procedure
not authorized.

ODALS

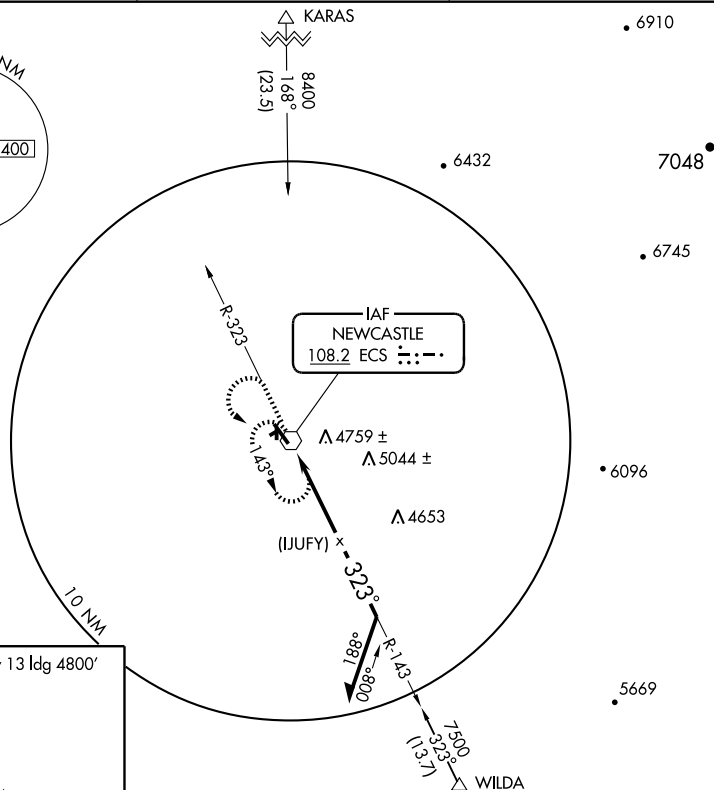
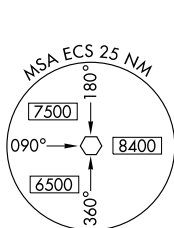


MISSED APPROACH: Climb to 5500 via ECS VOR R-323 then climbing left turn to 7500 direct ECS VOR and hold.

AWOS-3
118.0

DENVER CENTER
127.95 338.2

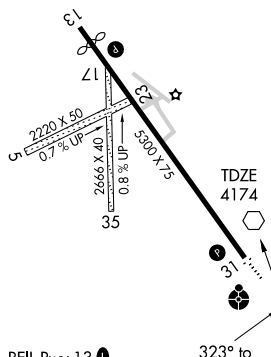
UNICOM
122.8 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 4174

Rwy 13 ldg 4800'

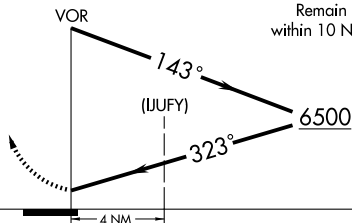


REIL Rwy 13 **L**
MIRL Rwy 13-31 **L**

323° to

5500 ↑ ESC R-323	7500 ↖	ESC ⬡ <u>108.2</u>
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Remain
within 10 NM



CATEGORY	A	B	C	D
S-31	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)
CIRCLING	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)

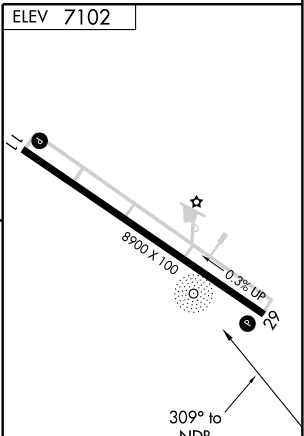
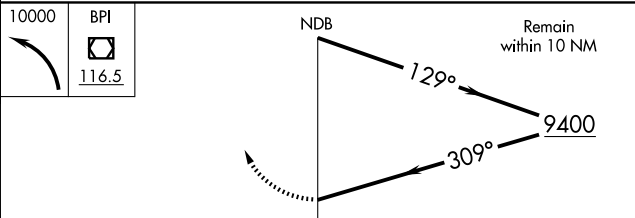
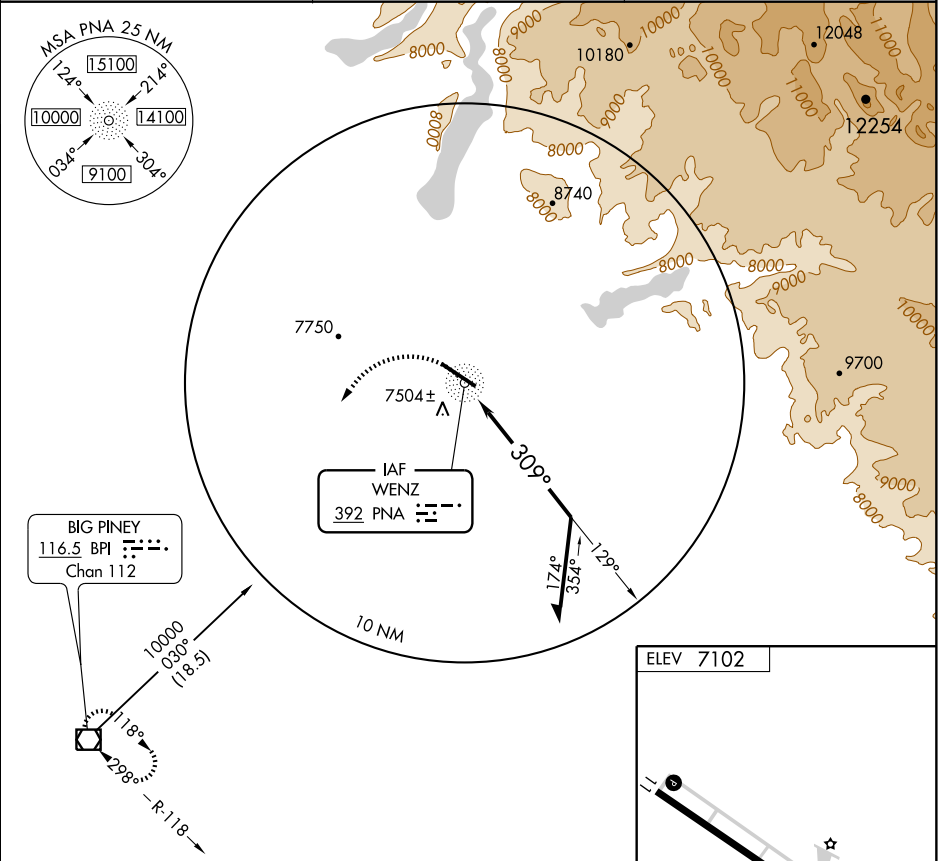
▼

▲

Procedure NA at night. When local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDA 60 feet and visibility Cat C/D ¼ mile.

MISSED APPROACH: Climbing left turn to 10000 direct BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	7900-1 798 (800-1)	7900-1¼ 798 (800-1¼)	7900-2¼ 798 (800-2¼)	7900-2½ 798 (800-2½)

REIL Rwy 11 and 29 0

MIRL Rwy 11-29 0

APP CRS	Rwy Idg	8900
110°	TDZE	7086
	Apt Elev	7086

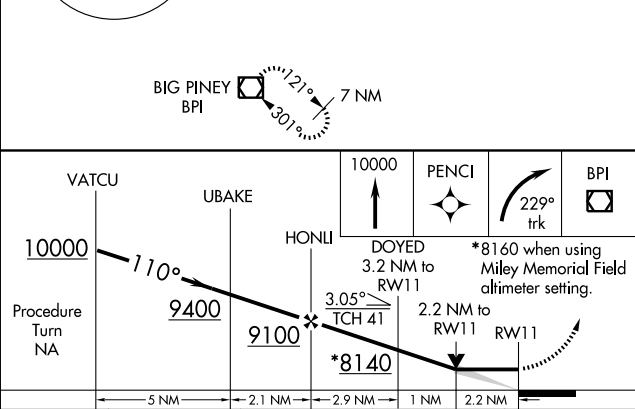
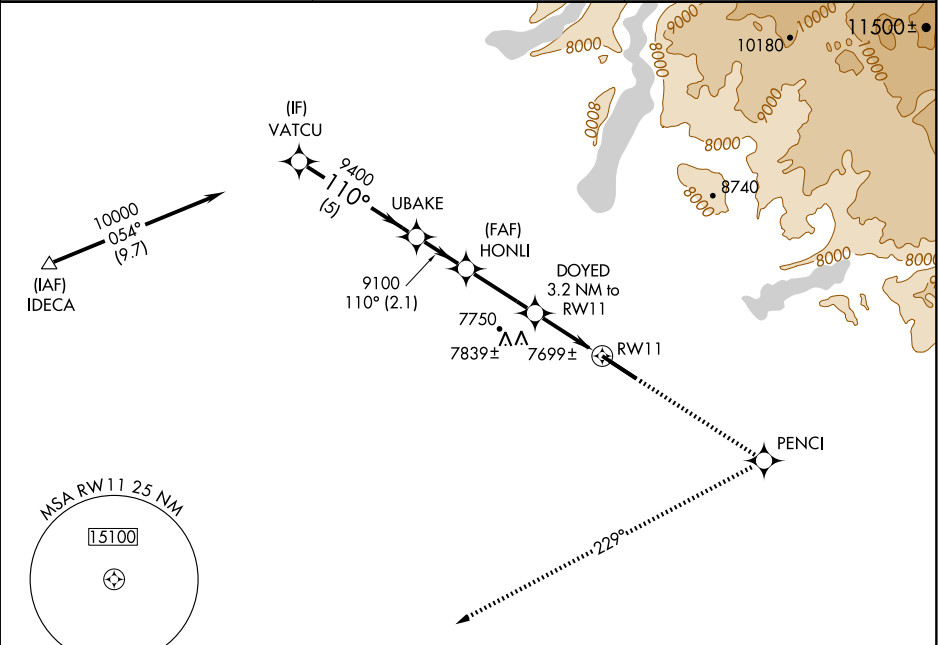
RNAV (GPS) RWY 11

PINEDALE/ RALPH WENZ FIELD (PNA)

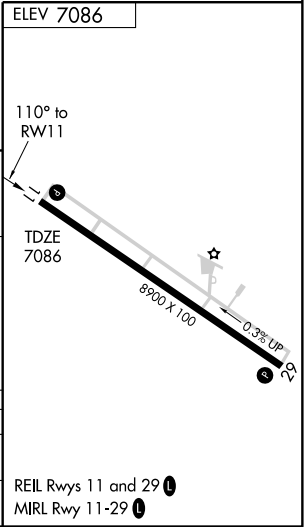
▼ DME/DME RNP- 0.3 NA.
▲ NA If local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDAs 60 feet.
VDP NA when using Miley Memorial Field altimeter setting.

MISSED APPROACH: Climb to 10000 direct PNCI and right turn via 229° track to BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
LNAV MDA	7820-1 734 (800-1)	7820-2 734 (800-2)	7820-2 1/2 734 (800-2 1/2)	7820-2 3/4 734 (800-2 3/4)
CIRCLING	7820-1 734 (800-1)	7880-1 1/4 794 (800-1 1/4)	7900-2 1/2 814 (900-2 1/2)	7920-2 3/4 834 (900-2 3/4)



▼

NA

DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Miley Memorial Field
altimeter setting and increase all MDAs 60 feet.
VDP NA when using Miley Memorial Field altimeter setting.

MISSED APPROACH: Climb to 10000 direct WUSEP
and via 201° track to BPI VOR/DME and hold.


AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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<div><div>10000</div><div>WUSEP</div><div>201° track</div><div>BPI</div></div> <div><div>1.8 NM to RW29</div><div>3.1 NM</div><div>3.04° TCH 42</div><div>3 NM</div><div>3.1 NM</div></div> <div><div>FEDPA</div><div>COTDA</div><div>290° 9400</div><div>Procedure Turn NA</div></div>	CATEGORY		A	B	C	D
	LNAV MDA		7680-1	606 (600-1)	7680-1¼ 606 (600-1¾)	7680-2 606 (600-2)
REIL Rwy 11 and 29 0 MIRL Rwy 11-29 0	CATEGORY		A	B	C	D
	CIRCLING		7820-1 734 (800-1)	7880-1¼ 794 (800-1¾)	7900-2½ 814 (900-2½)	7920-2¾ 834 (900-2¾)

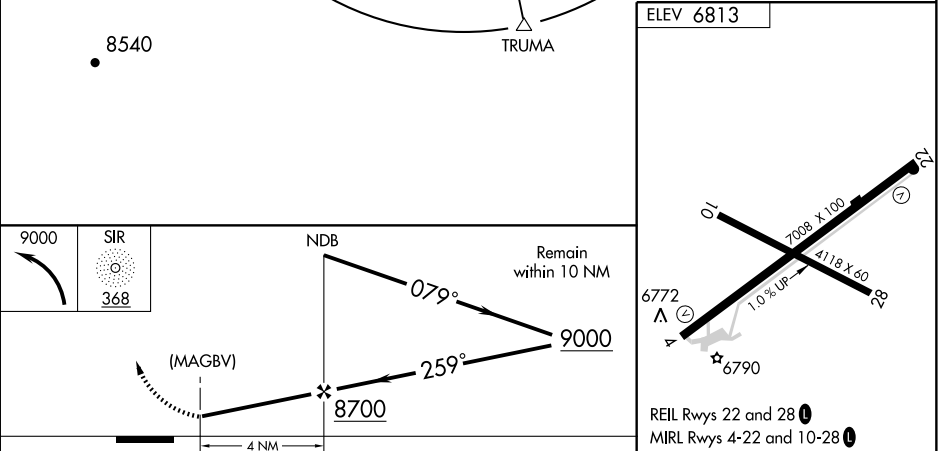
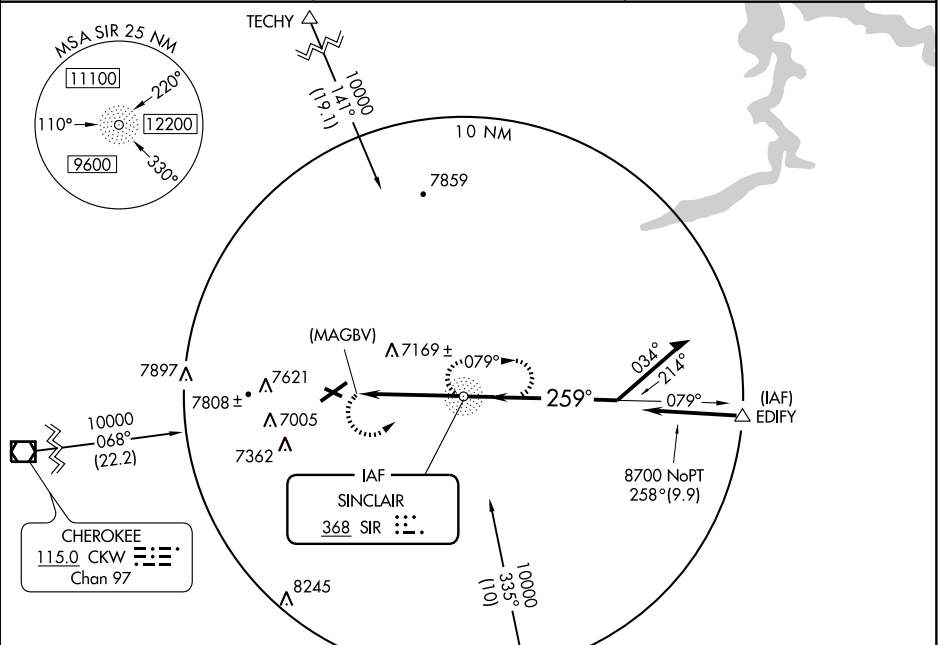
NW-1. 22 OCT 2009 to 19 NOV 2009

NDB SIR 368	APP CRS 259°	Rwy Idg TDZE Apt Elev	N/A N/A 6813
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NDB or GPS-A
RAWLINS MUNI/HARVEY FIELD (RWL)

  Circling not authorized NW of Rwy 4-22.	MISSED APPROACH: Climbing left turn to 9000 direct SIR NDB and hold.
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ASOS 118.525	DENVER CENTER 132.1 254.35	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 4 NM					
CIRCLING	7480-1 667 (700-1)		7480-1 3/4 667 (700-1 3/4)	7720-3 907 (1000-3)	Knots	60	90	120	150	180
					Min:Sec	4:00	2:40	2:00	1:36	1:20

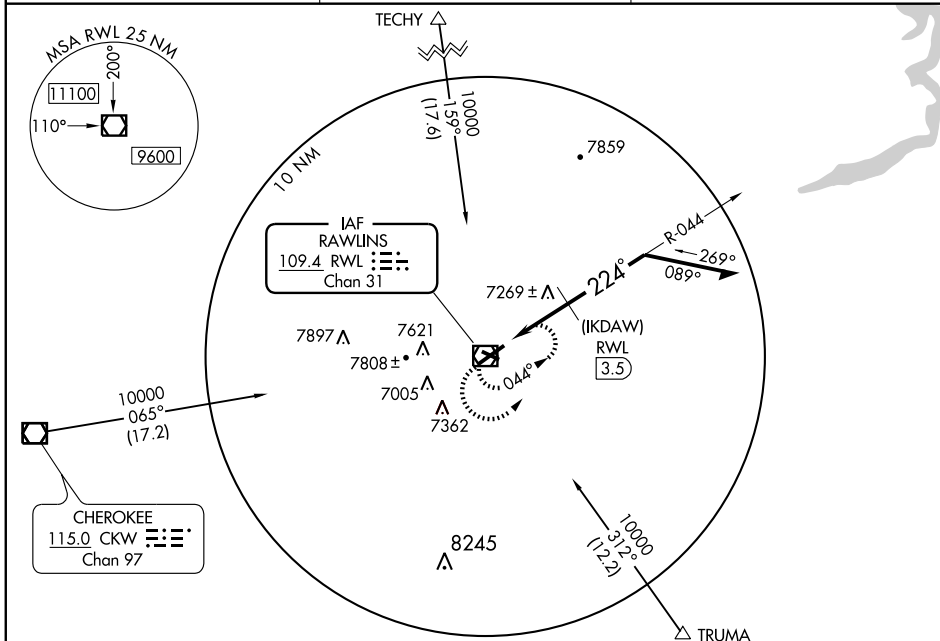
VOR/DME RWL 109.4 Chan 31	APP CRS 224°	Rwy Idg 7008 TDZE 6813 Apt Elev 6813
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VOR or GPS RWY 22
RAWLINS MUNI/HARVEY FIELD (RWL)

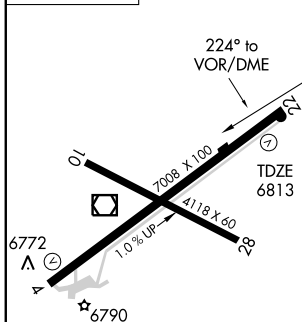
T
A Circling not authorized northwest of Runway 4-22.

MISSED APPROACH: Climbing left turn to 9300 via RWL R-044 within 10 NM, then direct RWL VOR/DME and hold.

ASOS
118.525

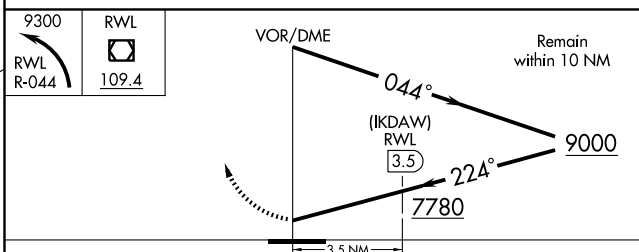
DENVER CENTER
132.1 254.35UNICOM
123.0 (CTAF) **L**

ELEV 6813	
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REIL Rwys 22 and 28 **L**
MIRL Rwys 4-22 and 10-28 **L**

Knots	60	90	120	150	180
Min:Sec					



CATEGORY	A	B	C	D
S-22	7780-1¼ 967 (1000-1¼)	7780-1½ 967 (1000-1½)	7780-3	967 (1000-3)
CIRCLING	7780-1¼ 967 (1000-1¼)	7780-1½ 967 (1000-1½)	7780-3	967 (1000-3)
DME MINIMA				
S-22	7520-1	707 (800-1)	7520-2 707 (800-2)	7720-3 907 (1000-3)
CIRCLING	7520-1	707 (800-1)	7520-2 707 (800-2)	7720-3 907 (1000-3)

GPS RWY 28
RIVERTON RGNL (RIW)

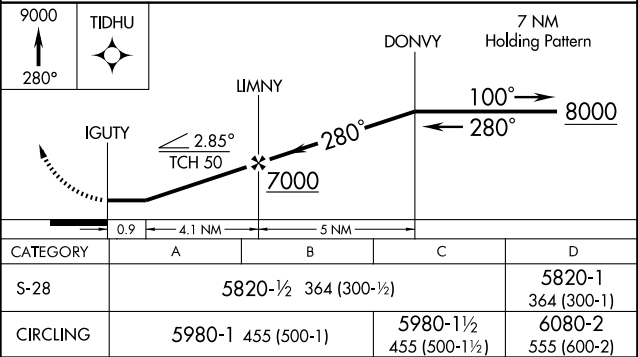
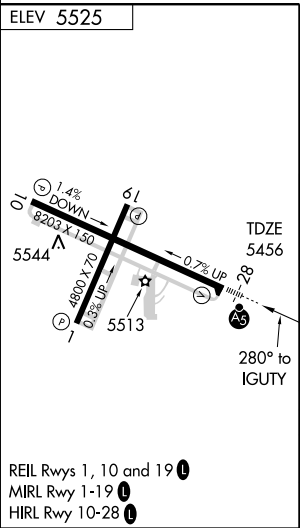
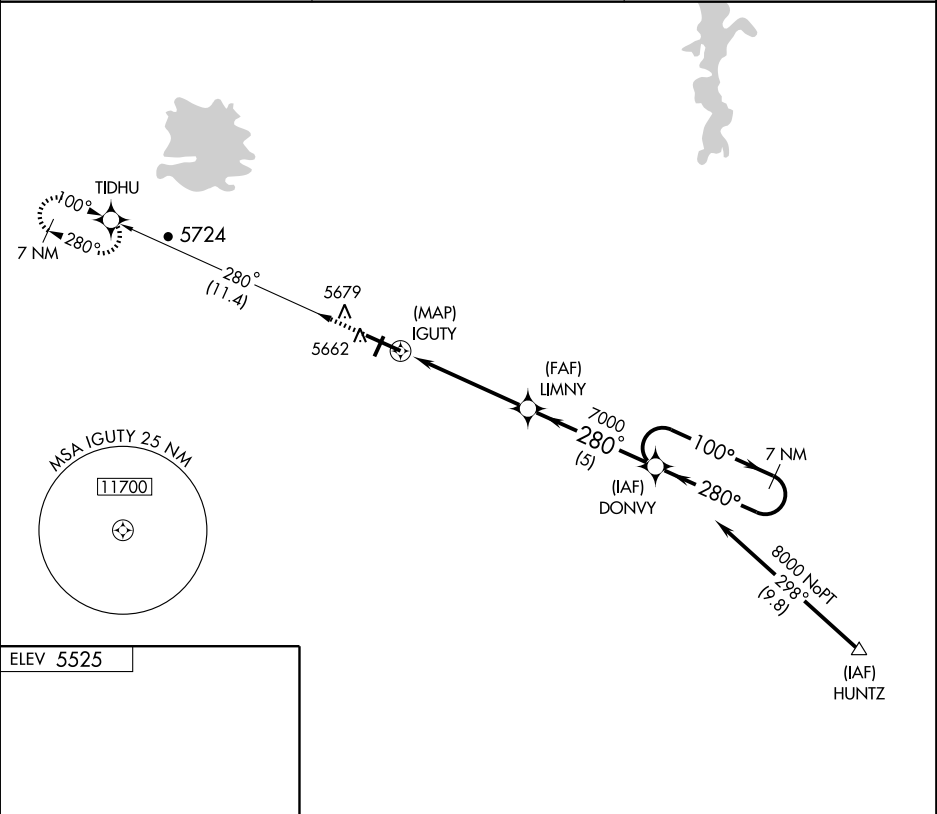
APP CRS	Rwy Idg	8203
280°	TDZE	5456
	Apt Elev	5525

For inoperative MALSR increase S-28 Cat D visibility to 1¼ mile.

MALSR

MISSED APPROACH: Climb to 9000 via 280° course to TIDHU WP and hold.



ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF) 0
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LOC I-RIW <u>110.5</u>	APP CRS 280°	Rwy Idg TDZE Apt Elev	8203 5456 5525
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ILS or LOC RWY 28

RIVERTON RGNL (RIW)

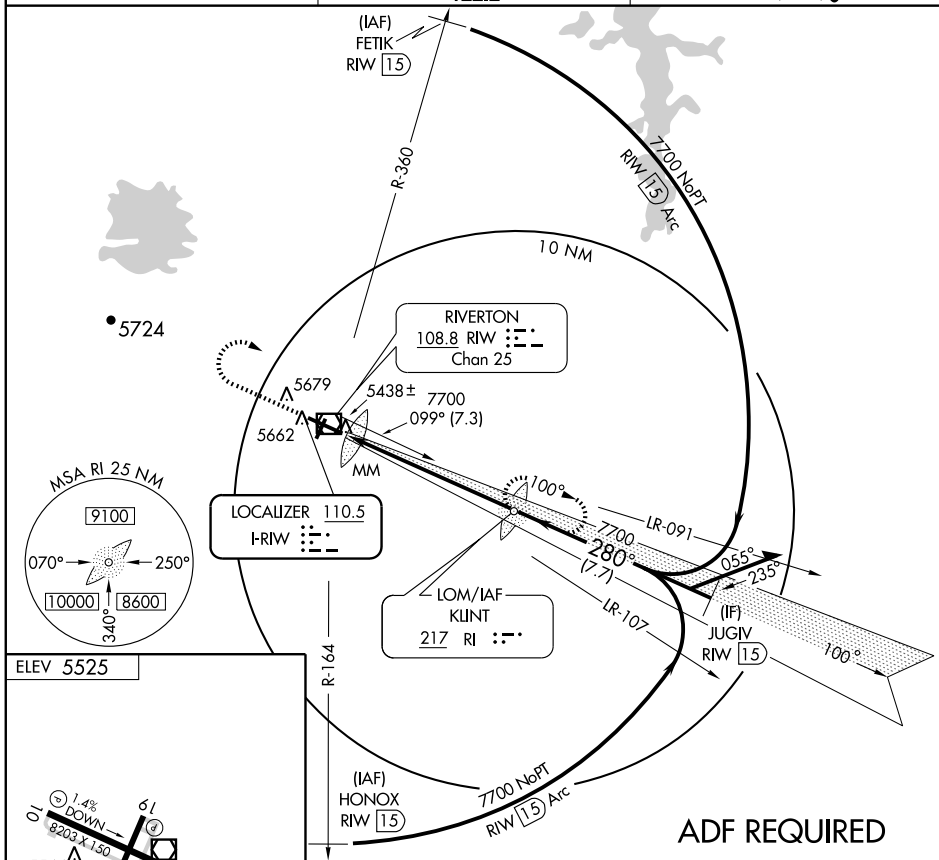
	For inoperative MALS/R, increase Cat D S-LOC visibility to 1 mile.
 NA	When local altimeter setting not received, use Lander altimeter setting and increase all DAs/MDAs 80 feet. When using Lander altimeter setting, for inoperative MALS/R, increase S-LS 28 all Cat visibility to 1 mile.

MALSR



MISSED APPROACH: Climb to 5920 then climbing right turn to 7700 direct RI LOM and hold.

ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF) 0
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ADF REQUIRED



REIL Rwy 1, 10 and 19 L

MIRL Rwy 1-19 **L**H|RL Rwy 10-28 **L**

FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

[illegible]

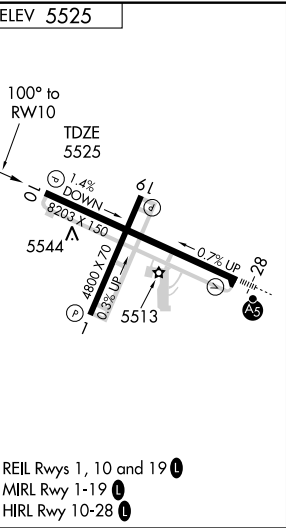
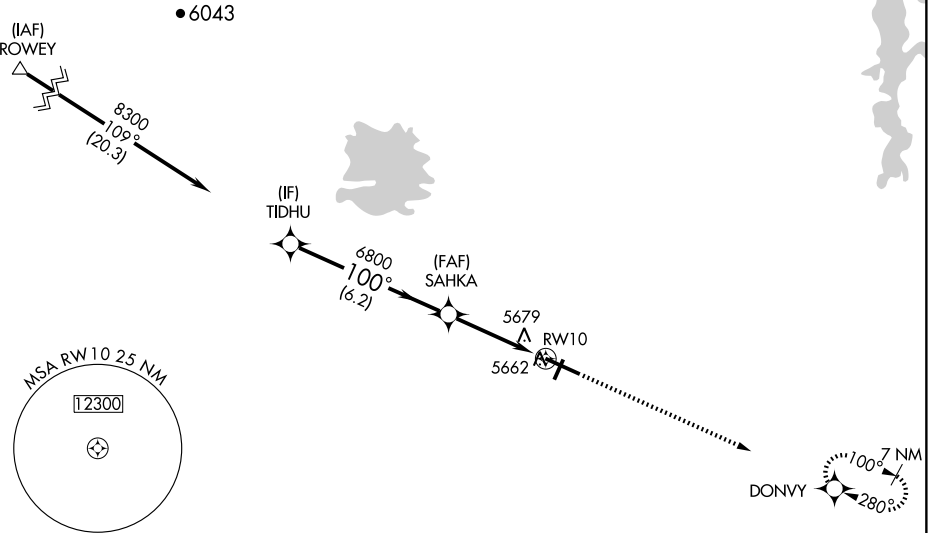
WAAS CH 42899 W10A	APP CRS 100°	Rwy Idg TDZE Apt Elev	8203 5525 5525
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RNAV (GPS) RWY 10
RIVERTON RGNL (RIW)

▼ Baro-VNAV NA below -26°C (-14°F). DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 9000 direct DONVY and hold, continue climb-in-hold to 9000.
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ASOS 121.425	CASPER RADIO 122.2	UNICOM 122.8 (CTAF) 0
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Procedure NA for arrival at ROWEY via V330 westbound.



Procedure Turn NA	TIDHU	VGSI and RNAV glidepath not coincident.	9000	DONVY
	8300	SAHKA		
	6800		*1.2 NM to RWY10	*LNAV only
	6.2 NM	2.6 NM	1.2 NM	
GS 3.00° TCH 50				
CATEGORY	A	B	C	D
LPV DA		5882-1¼	357 (400-1¼)	
LNAV/ VNAV DA		5974-1½	449 (500-1½)	
LNAV MDA	5940-1	415 (500-1)	5940-1¼	415 (500-1¼)
CIRCLING		5980-1½	455 (500-1½)	6080-2 555 (600-2)

VOR/DME RIW 108.8 Chan 25	APP CRS 095°	Rwy Idg 8203 TDZE 5525 Apt Elev 5525
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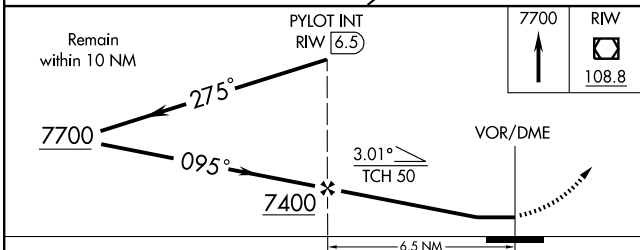
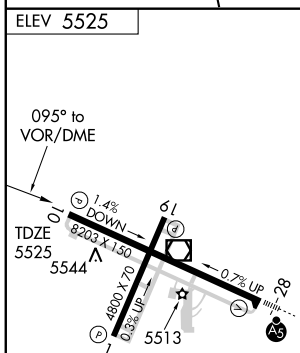
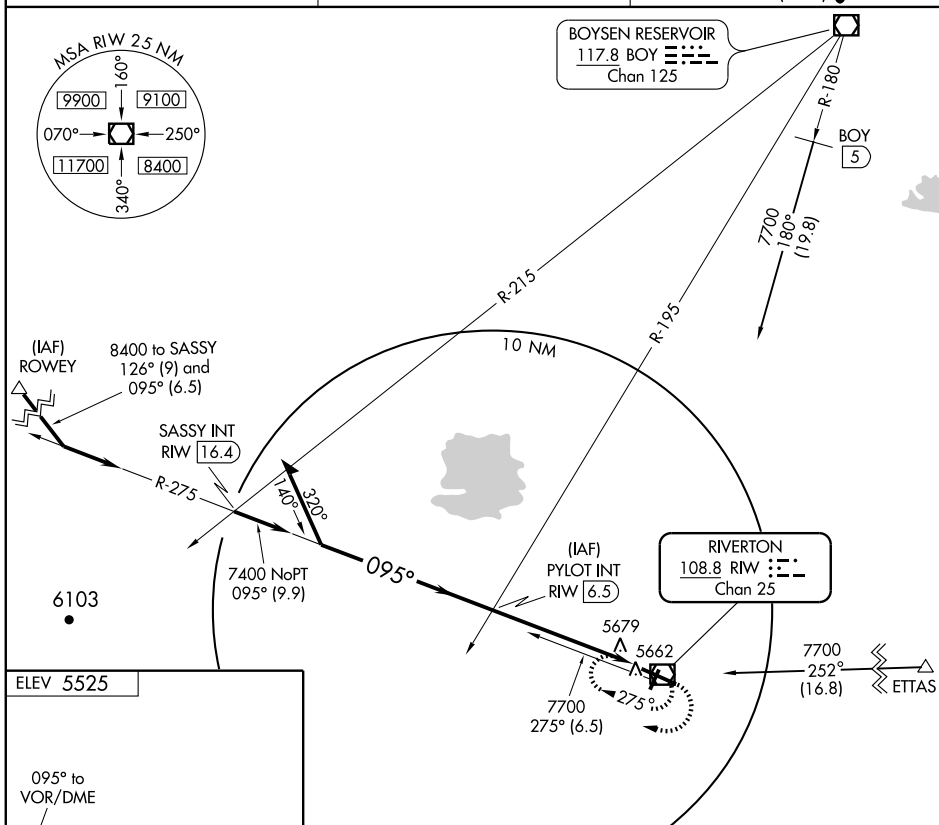
VOR RWY 10
RIVERTON RGNL (RIW)

MISSED APPROACH: Climb to 7700 in RIW VOR/DME holding pattern.

ASOS
121,425

CASPER RADIO
122.2

UNICOM
122.8 (CTAF) **L**

REIL Rwy 1, 10 and 19 **L**MIRL Rwy 1-19 **L**HIRL Rwy 10-28 **L**

CATEGORY	A	B	C	D
S-10	5940-1 415 (500-1)		5940-1¼ 415 (500-1¼)	
CIRCLING	5980-1 455 (500-1)		5980-1½ 455 (500-1½)	6080-2 555 (600-2)

VOR/DME RIW 108.8 Chan 25	APP CRS 287°	Rwy Idg 8203 TDZE 5456 Apt Elev 5525
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VOR RWY 28
RIVERTON RGNL (RIW)

T Inoperative table does not apply to Cat. D.

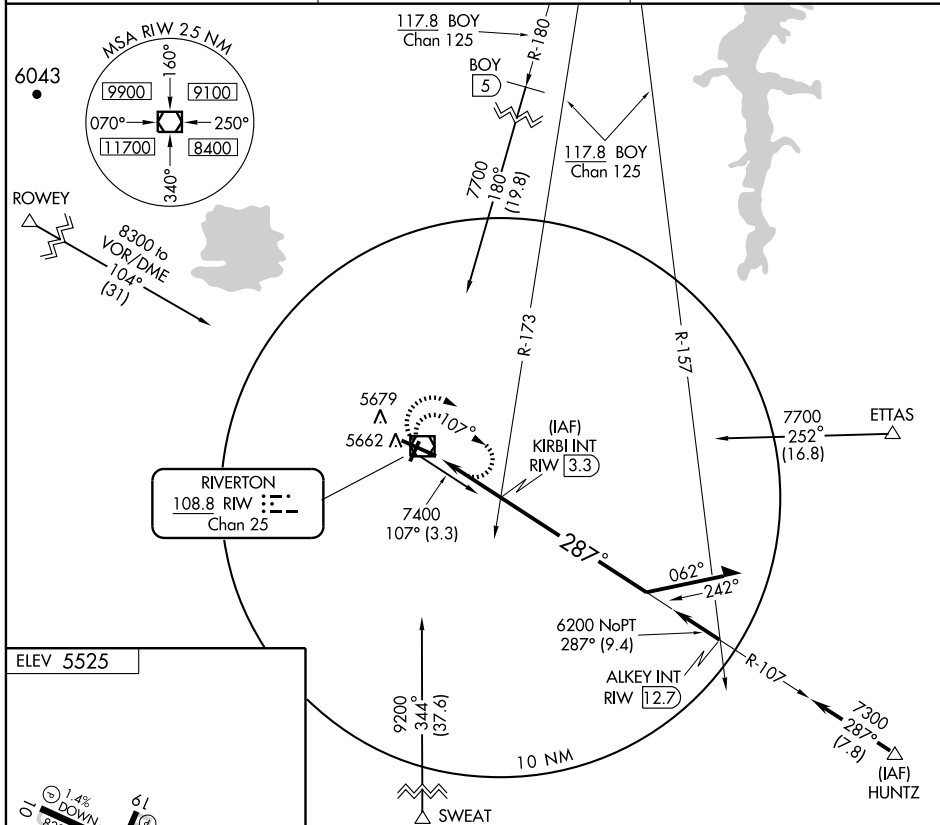


MISSED APPROACH: Climb to 7700 in RIW VOR/DME holding pattern.

ASOS
121,425

CASPER RADIO
122.2

UNICOM
122.8 (CTAF) **L**

REIL Rwyys 1, 10 and 19 **L**MIRL Rwy 1-19 **L**

HIRL Rwy 10-28 (L)

[illegible]

LOC/DME I-RKS 109.3 Chan 30	APP CRS 270°	Rwy Idg 10000 TDZE 6760 Apt Elev 6760
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ILS or LOC/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)



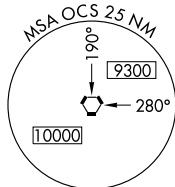
MALSR



MISSED APPROACH: Climb to 7400, then climbing right turn to 9300 direct OCS VORTAC and hold.

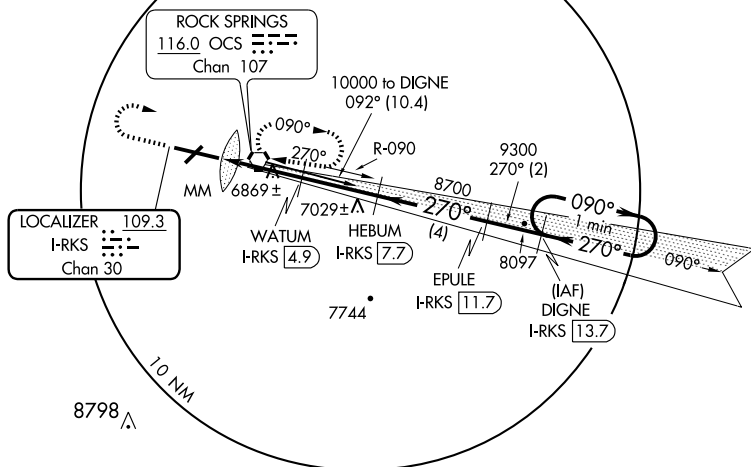
ASOS
118.375

CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**

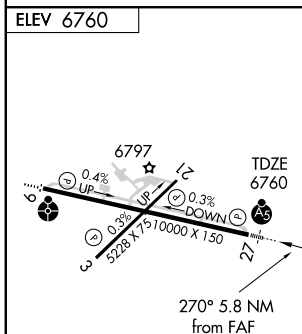
7921

Δ⁸⁰²²

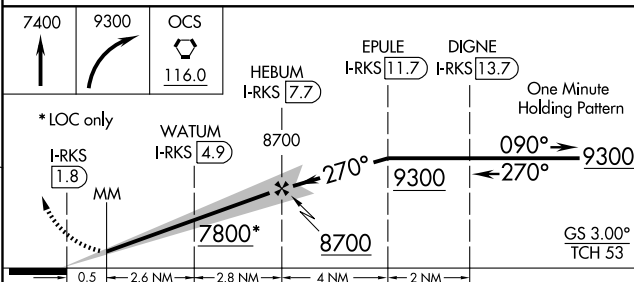


NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 6760



DME REQUIRED

REIL Rwy 3 and 21 **L**MIRL Rwy 3-21 **L**HIRL Rwy 9-27 **L**

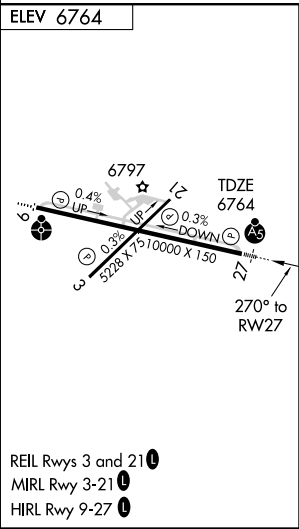
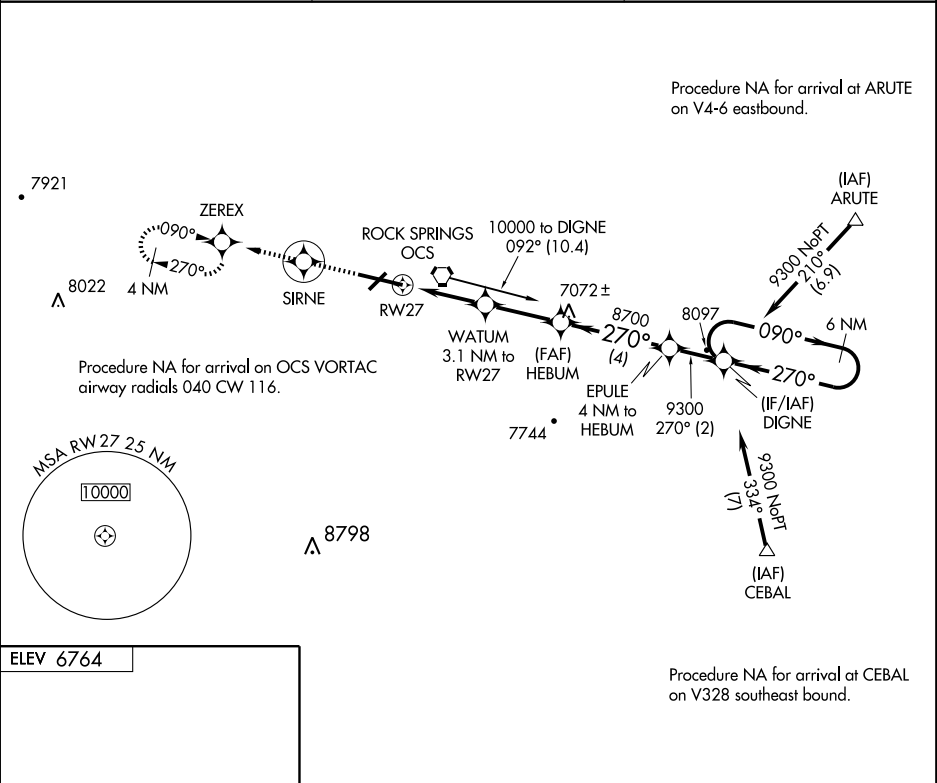
CATEGORY	A	B	C	D
S-ILS-27	6960- ½ 200 (200-½)			
S-LOC 27	7120-½ 360 (400-½)		7120-¾ 360 (400-¾)	7220-¾ 360 (400-¾)
CIRCLING	7120-1 360 (400-1)	7220-1 460 (500-1)	7220-1½ 460 (500-1½)	7320-2 560 (600-2)

APP CRS	Rwy Idg	10000
270°	TDZE	6764
	Apt Elev	6764

RNAV (GPS) Y RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

T DME/DME RNP-0.3 NA. For inoperative MALS, increase Cat D visibility to 1 1/4 mile.	MALS 	MISSED APPROACH: Climb to 9300 direct SIRNE WP and via 270° track to ZEREX WP and hold.
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ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF)
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	9300	SIRNE	270°	ZEREX				
					EPULE 4 NM to HEBUM	DIGNE	6 NM Holding Pattern	
					HEBUM			
					WATUM 3.1 NM to RW27			
					1 NM to RW27			
					7800	8700	9300	9300
					3.05° TCH 53			
					1 NM	2.1 NM	2.7 NM	4 NM
CATEGORY	A		B		C		D	
LNAV MDA	7120-1/2		356 (400-1/2)		7120-1		356 (400-1)	
CIRCLING	7120-1		7220-1		7220-1 1/4		7320-1 1/4	
	356 (400-1)		456 (500-1)		456 (500-1 1/4)		556 (600-1 1/4)	

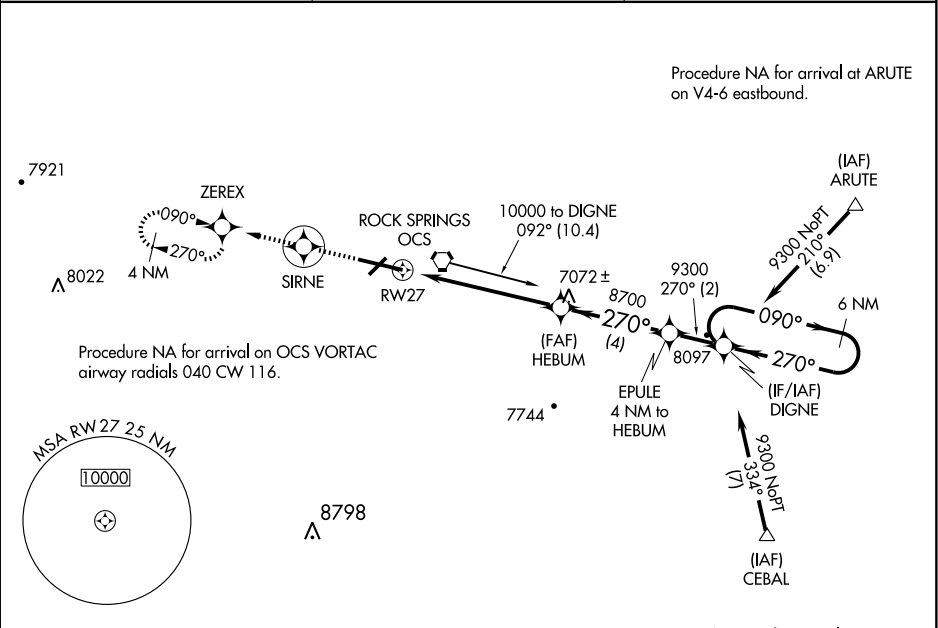
APP CRS	Rwy Idg	10000
270°	TDZE	6760
	Apt Elev	6760

RNAV (GPS) Z RWY 27

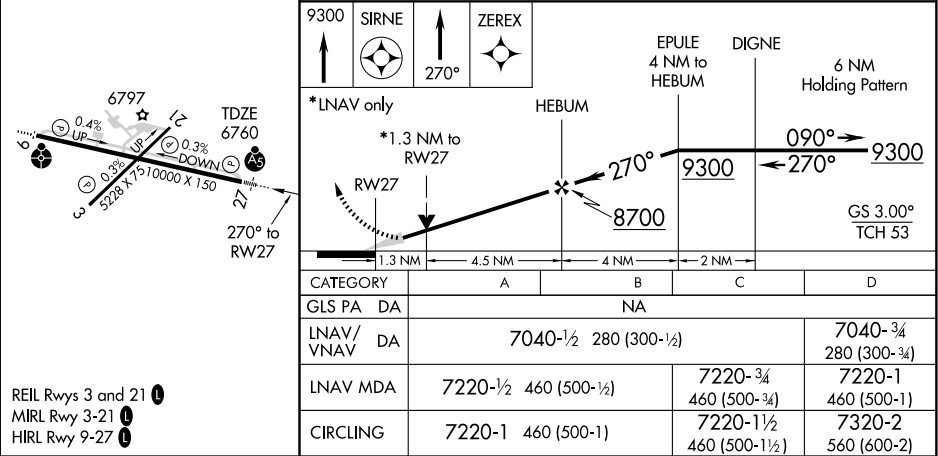
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

<p>GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Baro-VNAV NA below -28°C (-18°F). For inoperative MALSR, increase LNAV/VNAV Cat. D visibility to 1 mile.</p>	<p>MALSR</p> <p></p>	<p>MISSED APPROACH: Climb to 9300 direct SIRNE WP and via 270° track to ZEREX WP and hold.</p>
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<p>ASOS 118.375</p>	<p>CASPER RADIO 122.6</p>	<p>UNICOM 122.8 (CTAF) </p>
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ELEV 6760



VORTAC OCS 116.0 Chan 107	APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 6760
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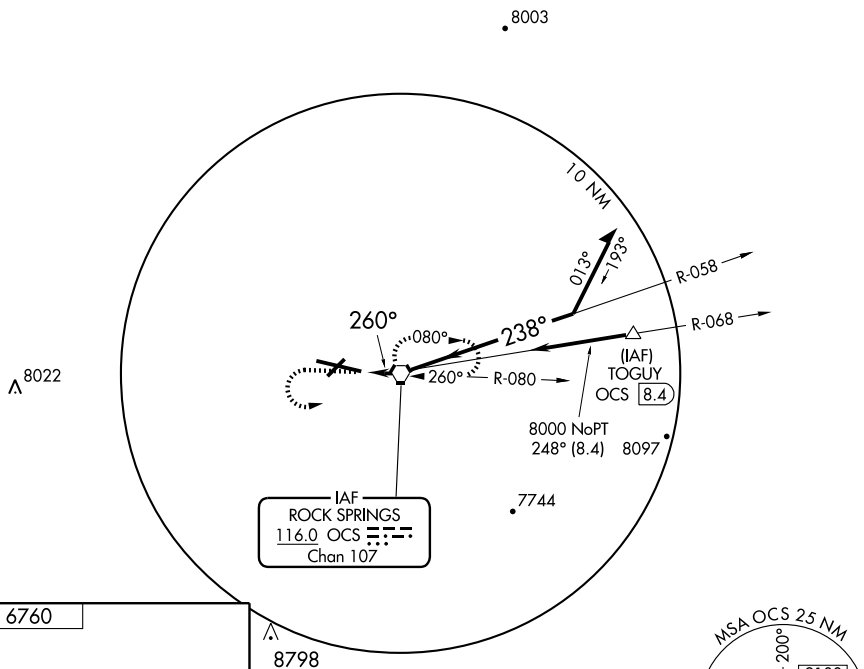
VOR-B
ROCK SPRINGS-SWEETWATER COUNTY (RKS)



MISSED APPROACH: Climb to 7700, then climbing left turn to 9100 direct OCS VORTAC and hold.

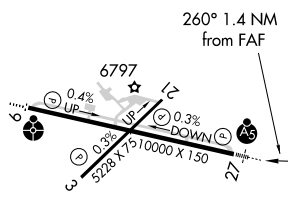
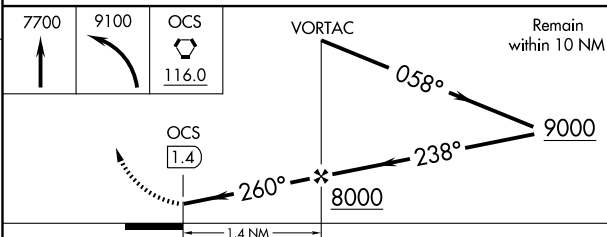
ASOS
118,375

CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**

NW-1. 22 OCT 2009 to 19 NOV 2009



ELEV 6760

REIL Rwys 3 and 21 **L**MIRL Rwy 3-21 **L**HIRL Rwy 9-27 **L**

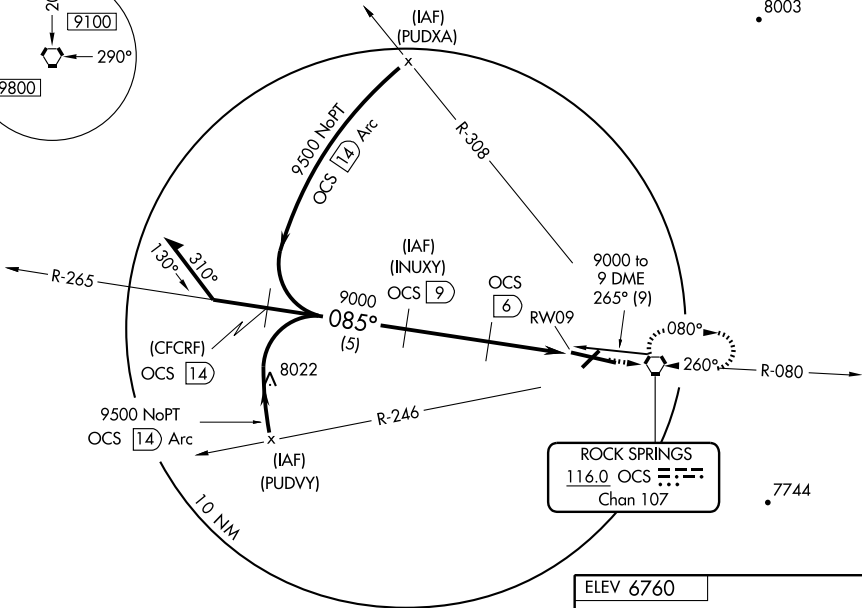
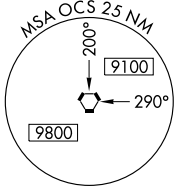
FAF to MAP 1.4 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	7440-1	680 (700-1)	7440-2 680 (700-2)	7440-2¼ 680 (700-2¼)
Min:Sec	1:24	0:56	0:42	0:34	0:28					

VORTAC OCS	APP CRS	Rwy Idg	10000
116.0	085°	TDZE	6737
Chan 107		Apt Elev	6760

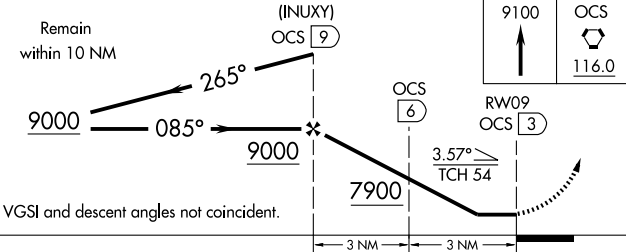
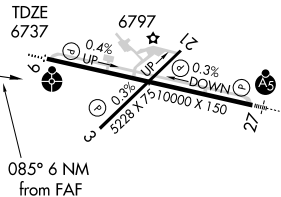
VOR/DME or GPS RWY 9
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

	ODALS 	MISSED APPROACH: Climb to 9100 direct OCS VORTAC and hold.
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ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF) 0
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ELEV 6760



CATEGORY	A	B	C	D
S-9	7000-3/4	263 (300-3/4)		7000-1 263 (300-1)
CIRCLING	7120-1 360 (400-1)	7220-1 460 (500-1)	7220-1 1/2 460 (500-1 1/2)	7320-2 560 (600-2)

REIL Rwy 3 and 21 0
MIRL Rwy 3-21 0
HIRL Rwy 9-27 0

AL-353 (FAA)

VORTAC OCS 116.0 Chan 107	APP CRS 255°	Rwy Idg 10000 TDZE 6760 Apt Elev 6760
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VOR/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

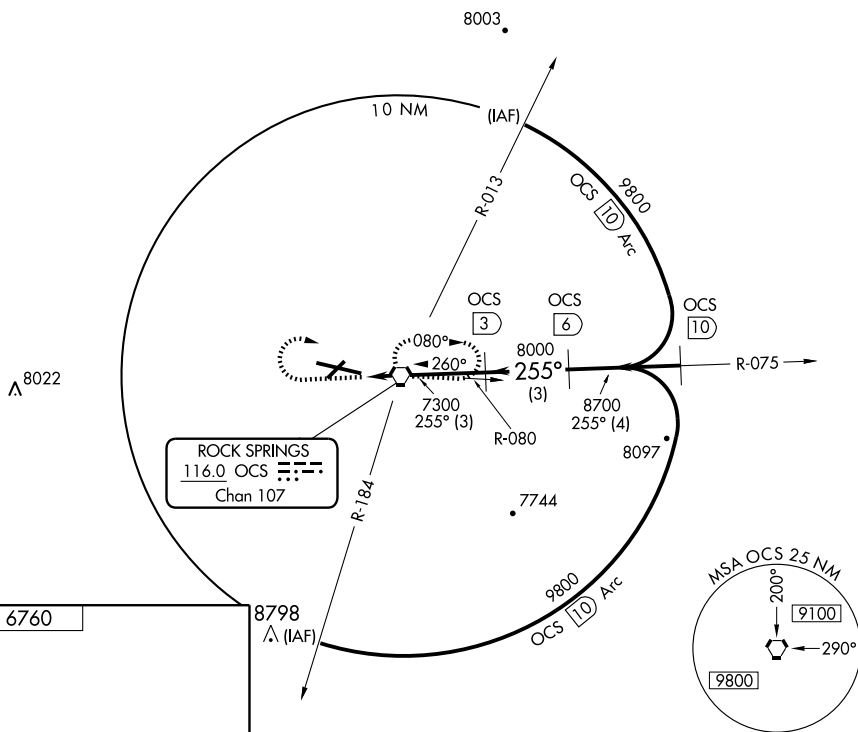
T Inoperative table does not apply to Cat. D.



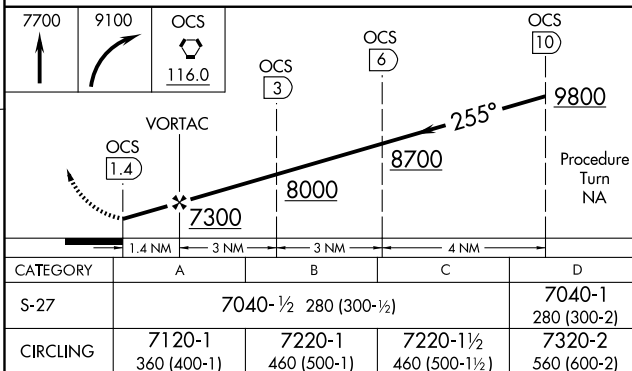
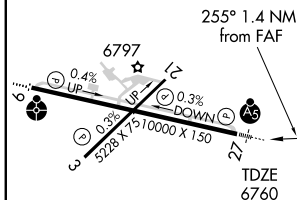
MISSED APPROACH: Climb to 7700, then climbing right turn to 9100 direct OCS VORTAC and hold.

ASOS
118.375

CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**

ELEV 6760



NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwys 3 and 21 **L**MIRL Rwy 3-21 **L**HIRL Rwy 9-27 **L**

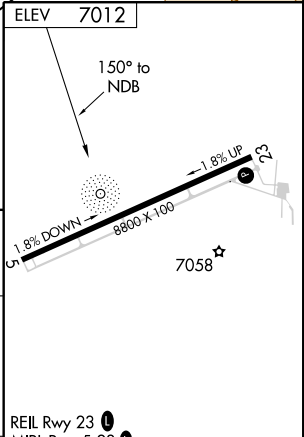
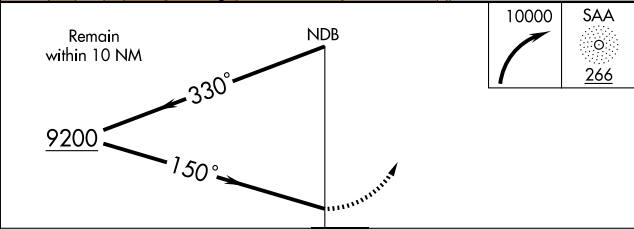
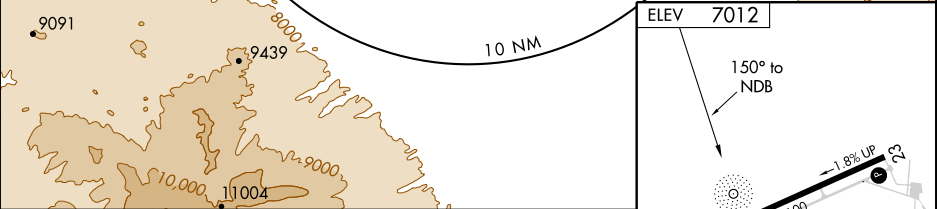
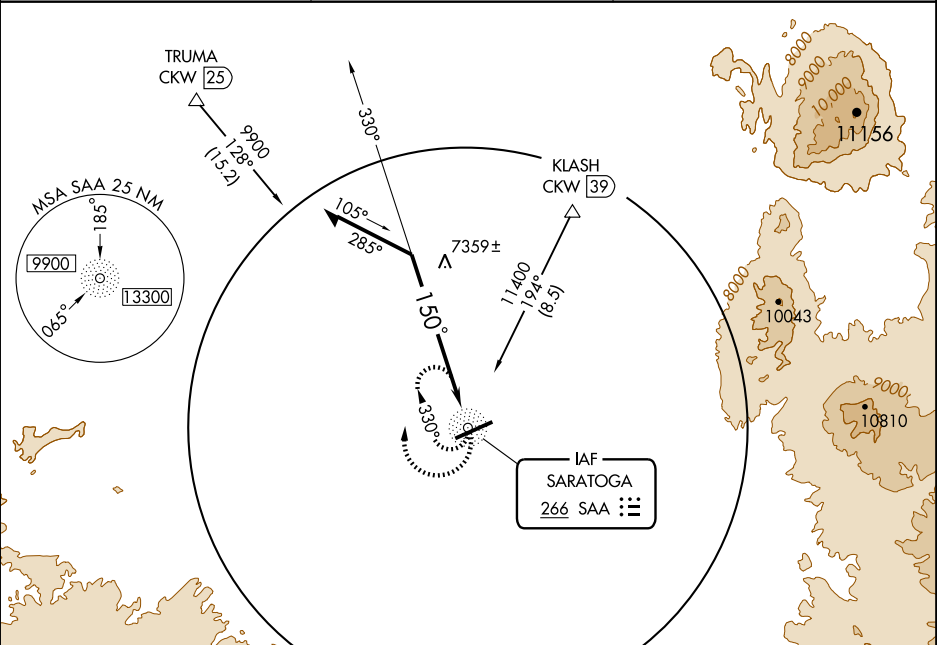
NDB SAA 266	APP CRS 150°	Rwy Idg TDZE Apt Elev N/A N/A 7012
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NDB-A

SARATOGA/ SHIVELY FIELD (SAA)

NA If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.	MISSED APPROACH: Climbing right turn to 10,000 in SAA NDB holding pattern.
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AWOS-3 118.175	DENVER CENTER 132.1 254.35	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	7720-1¼	708 (800-1¼)	7720-2	708 (800-2)	7720-2¼	708 (800-2¼)				
					Min:Sec					

APP CRS	Rwy Idg	N/A
151°	TDZE	N/A
	Apt Elev	7012

RNAV (GPS)-B
SARATOGA/SHIVELY FIELD (SAA)

T DME/DME RNP -0.3 NA. If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.

A NA

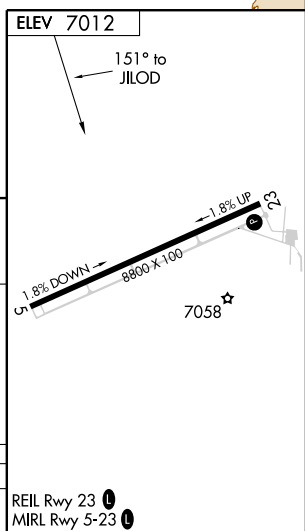
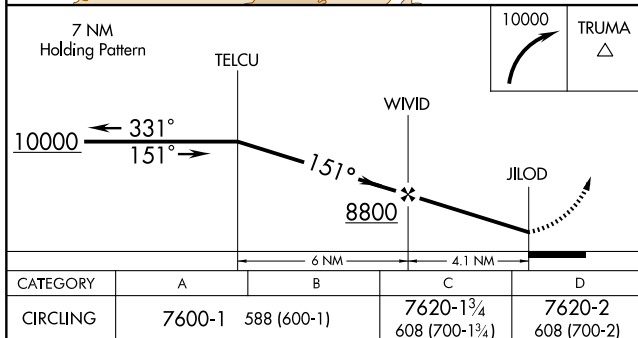
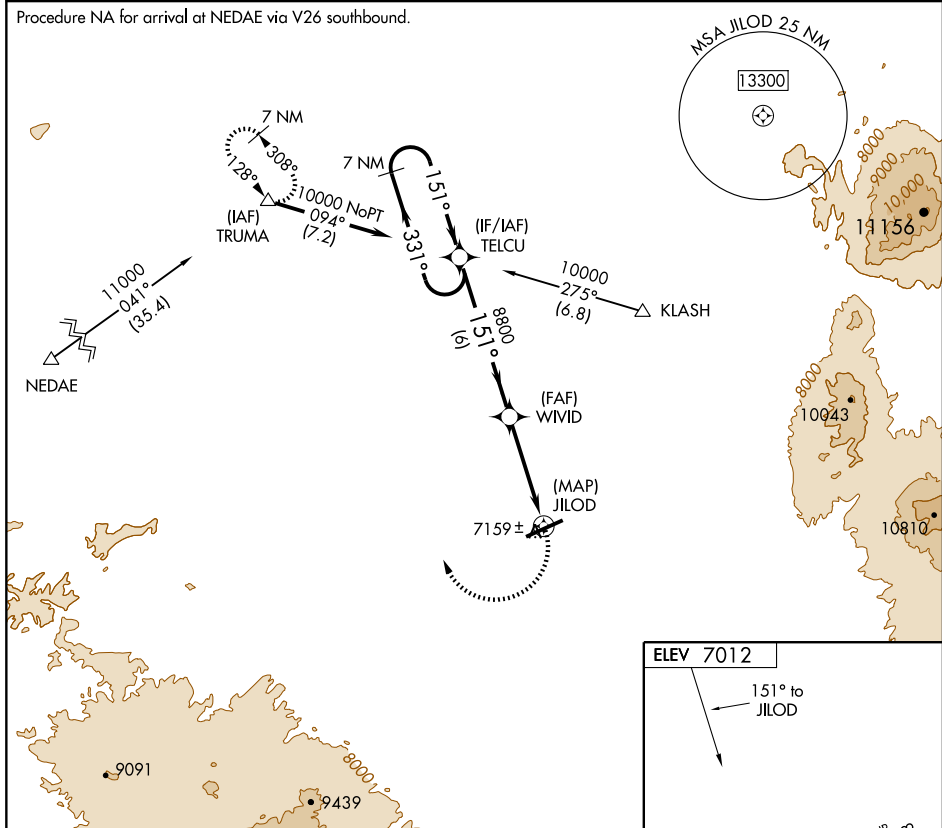
MISSED APPROACH: Climbing right turn to 10,000 direct TRUMA and hold.

AWOS-3
118.175

DENVER CENTER
132.1 254.35

UNICOM
122.8 (CTAF) **L**

Procedure NA for arrival at NEDAE via V26 southbound.



LOC/DME I-SHR 108.7 Chan 24	APP CRS 323°	Rwy Idg 8300 TDZE 3985 Apt Elev 4021
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ILS or LOC/DME RWY 32

SHERIDAN COUNTY (SHR)

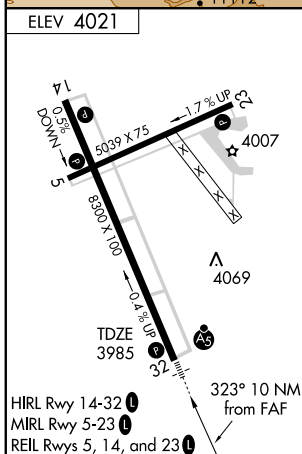
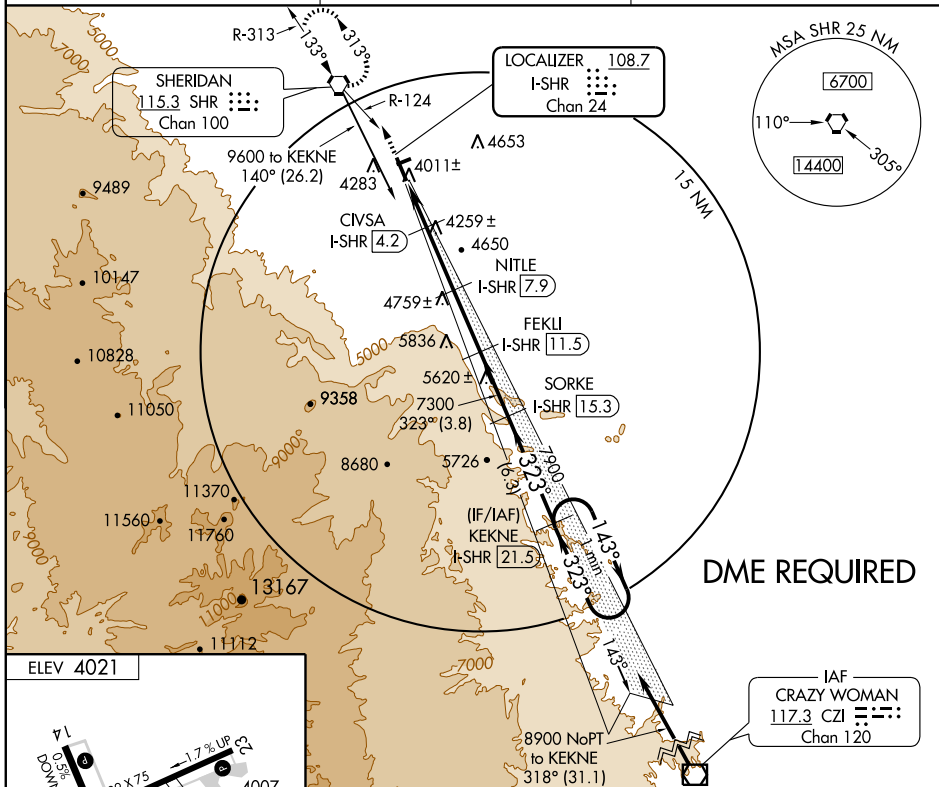
- T** When VGSI inoperative, circling Rwy 5 and 23 NA at night.
A For inoperative MALSR, increase S-LOC 32 Cat D visibility to 1.
If local altimeter setting not received, procedure NA.

MALSR


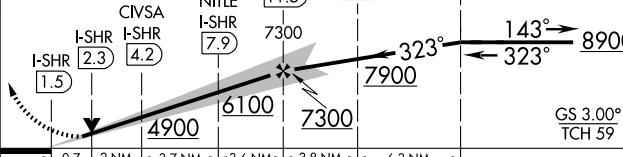


MISSED APPROACH: Climb to 7000 via heading 323° and SHR VORTAC R-124 to SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) ①
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Knots	60	90	120	150	180
Min:Sec					

7000 ↑ 323°		SHR R-124		SHR  115.3		FEKLI I-SHR 11.5		SORKE I-SHR 15.3		KEKNE I-SHR 21.5		One Minute Holding Pattern	
													
CATEGORY		A		B		C		D					
S-ILS 32				4185-½		200 (200-½)							
S-LOC 32				4260-½		275 (300-½)		4260-¾ 275 (300-¾)					
CIRCLING		4580-1 559 (600-1)		4600-1 579 (600-1)		4620-1½ 599 (600-1½)		4740-2¼ 719 (800-2¼)					

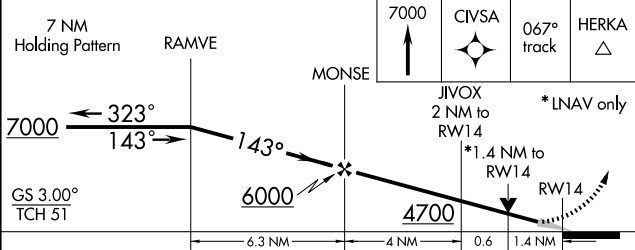
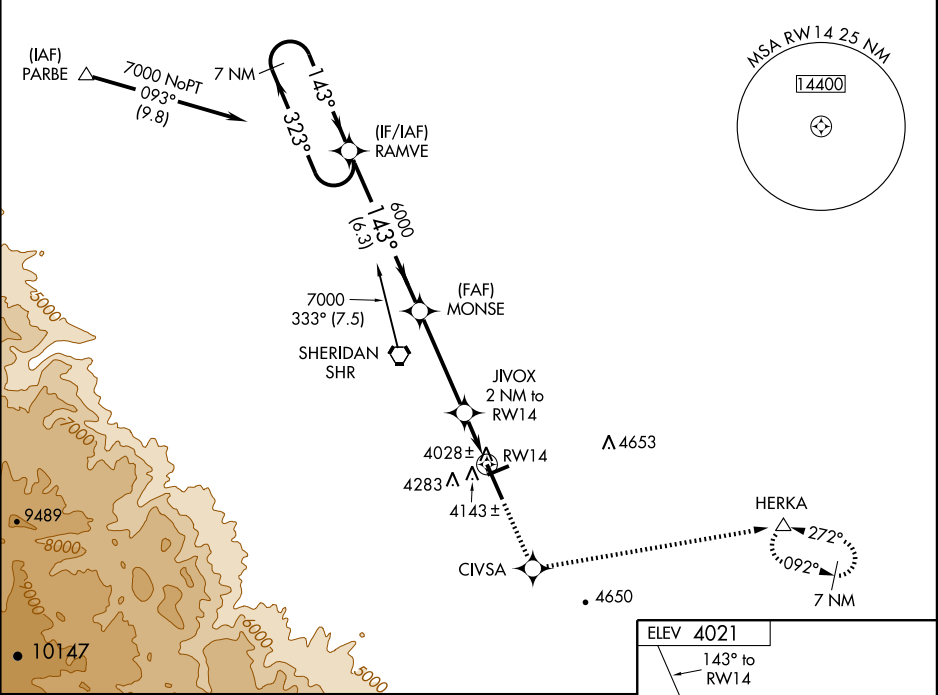
RNAV (GPS) RWY 14
SHERIDAN COUNTY (SHR)

WAAS CH 81899 W14A	APP CRS 143°	Rwy Idg TDZE Apt Elev 8300 4014 4021
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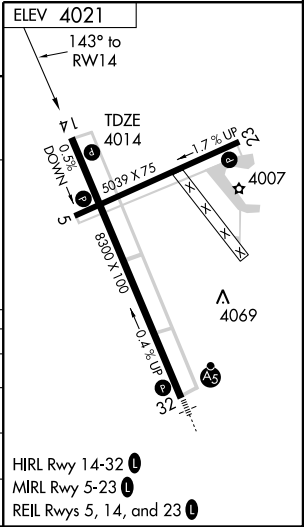
⚠ DME/DME RNP -0.3 NA.
⚠ Baro-VNAV NA below -23°C (-9°F).
When VGSI inoperative, circling Rwy 5 and 23 NA at night.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct CIVSA
and via 067° track to HERKA and hold, continue
climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		4264-3/4	250 (300-3/4)	
RNAV/VNAV DA		4419-1 1/2	405 (400-1 1/2)	
RNAV MDA	4500-1	486 (500-1)	4500-1 1/4 486 (500-1 1/4)	4500-1 1/2 486 (500-1 1/2)
CIRCLING	4580-1 1/2 559 (600-1 1/2)	4600-1 1/2 579 (600-1 1/2)	4620-1 1/2 599 (600-1 1/2)	4740-2 1/4 719 (800-2 1/4)



WAAS CH 65699 W32A	APP CRS 323°	Rwy Idg 8300 TDZE 3985 Apt Elev 4021
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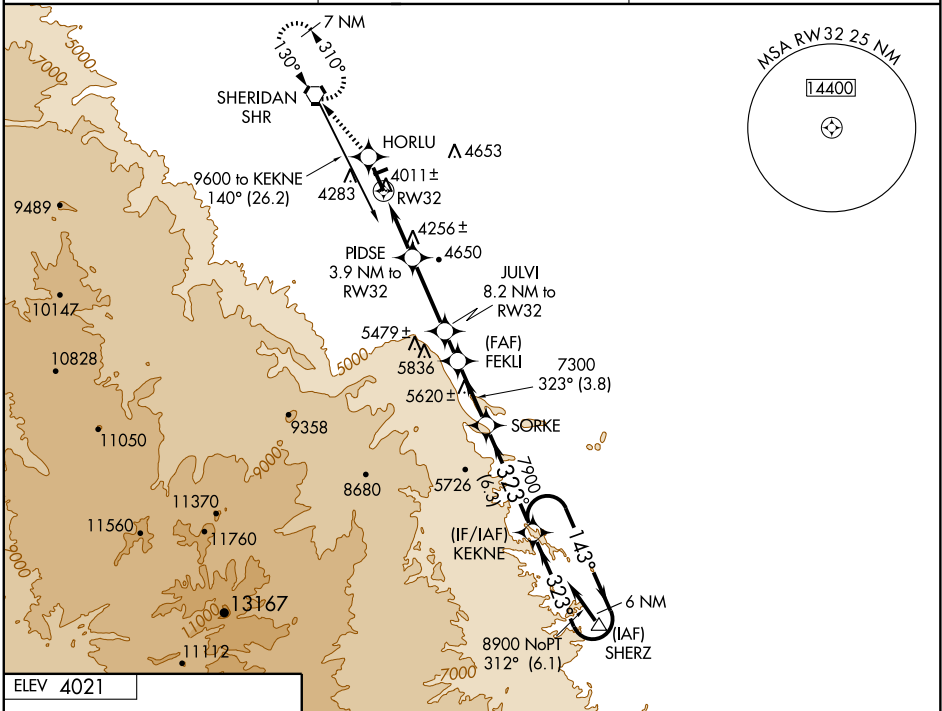
RNAV (GPS) RWY 32
SHERIDAN COUNTY (SHR)

T DME/DME RNP-0.3 NA. Baro-VNAV NA below -23°C (-9°F).
A For inoperative MALSR, increase LPV visibility to $\frac{3}{4}$ all Cats.
 When VGSI inoperative, circling Rwy 5 and 23 NA at night.
 If local altimeter setting not received, procedure NA.

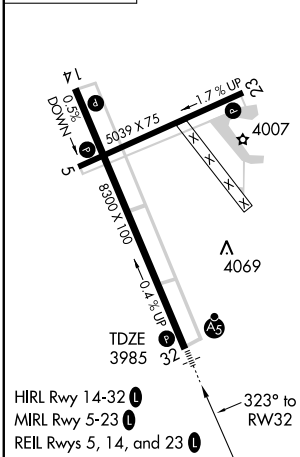


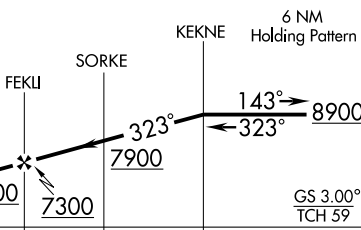
MISSED APPROACH: Climb to 7000 direct HORLU and via 306° track to SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) L
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ELEV 4021	
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7000 ↑	HORLU ✦	306° track	SHR ◻						
*LNAV only	PIDSE 3.9 NM to RW32	JULVI 8.2 NM to RW32	FEKU	SORKE	KEKNE	6 NM Holding Pattern			
*1.5 NM to RW32	RW32	5280	6700	7300	7900	8900	GS 3.00° TCH 59		
1.5	2.4 NM	4.3 NM	1.8 NM	3.8 NM	6.3 NM				
CATEGORY	A		B		C		D		
LPV DA	4235-½				250 (300-½)				
LNAV/ VNAV	4426-1				441 (500-1)				
LNAV MDA	4520-½ 535 (500-½)				4520-1 535 (500-1)		4520-1¼ 535 (500-1¼)		
CIRCLING	4580-1½ 559 (600-½)		4600-1½ 579 (600-½)		4620-1½ 599 (600-½)		4740-2¼ 719 (800-2¼)		

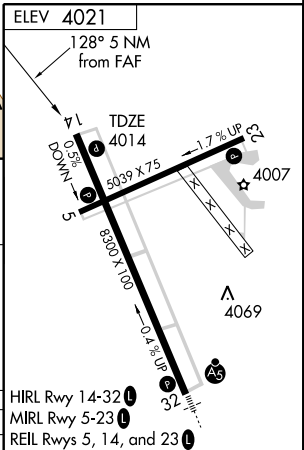
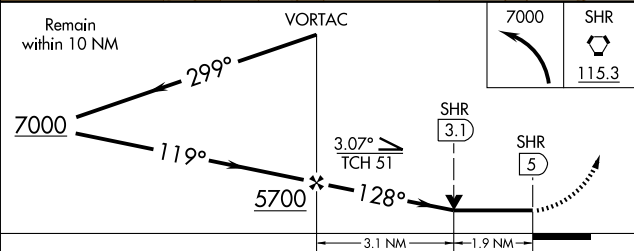
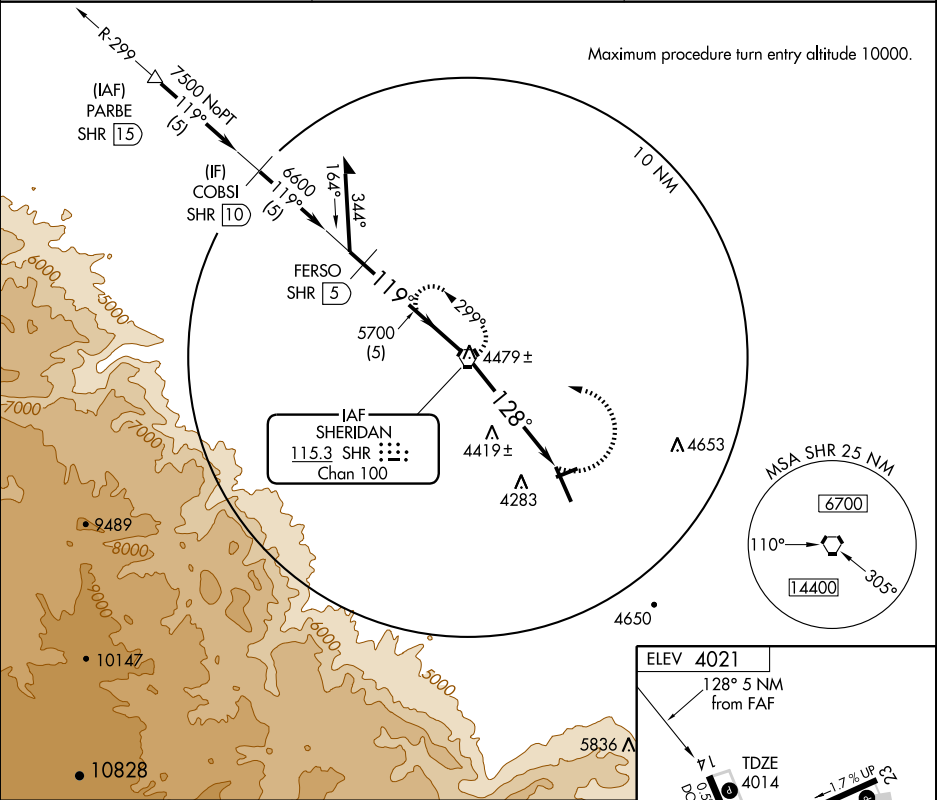
VORTAC SHR	APP CRS	Rwy Idg	8300
115.3	128°	TDZE	4014
Chan 100		Apt Elev	4021

VOR RWY 14
SHERIDAN COUNTY (SHR)

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 7000 direct SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-14	4680-1 666 (700-1)		4680-1¾ 666 (700-1¾)	4680-2 666 (700-2)
CIRCLING	4680-1 659 (700-1)		4680-1¾ 659 (700-1¾)	4740-2¼ 719 (800-2¼)

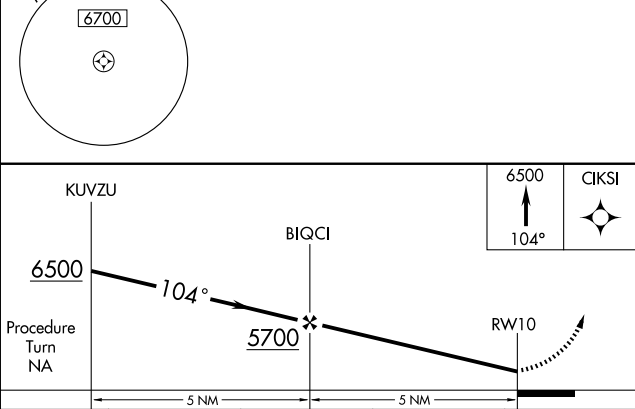
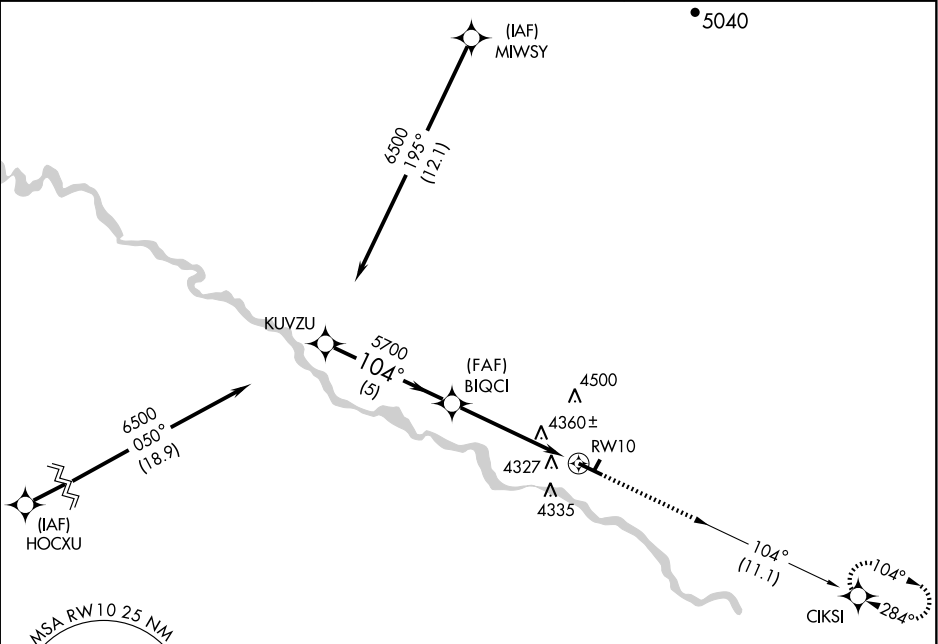
FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

APP CRS	Rwy Idg	5703
104°	TDZE	4205
	Apt Elev	4205

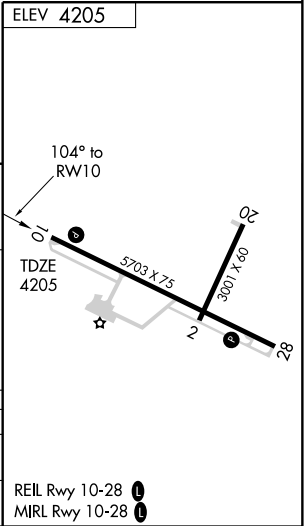
GPS RWY 10
TORRINGTON MUNI (TOR)

▲ NA	MISSED APPROACH: Climb to 6500 via 104° course to CIKSI WP and hold.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-10	4660-1	455 (500-1)	4660-1¼ 455 (500-1¼)	4660-1½ 455 (600-1½)
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)

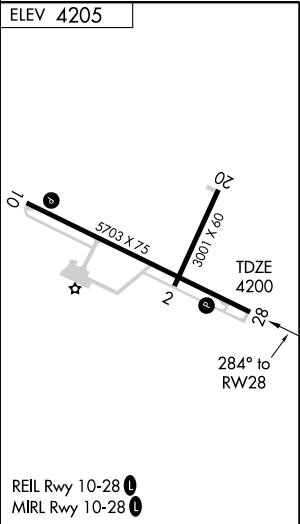
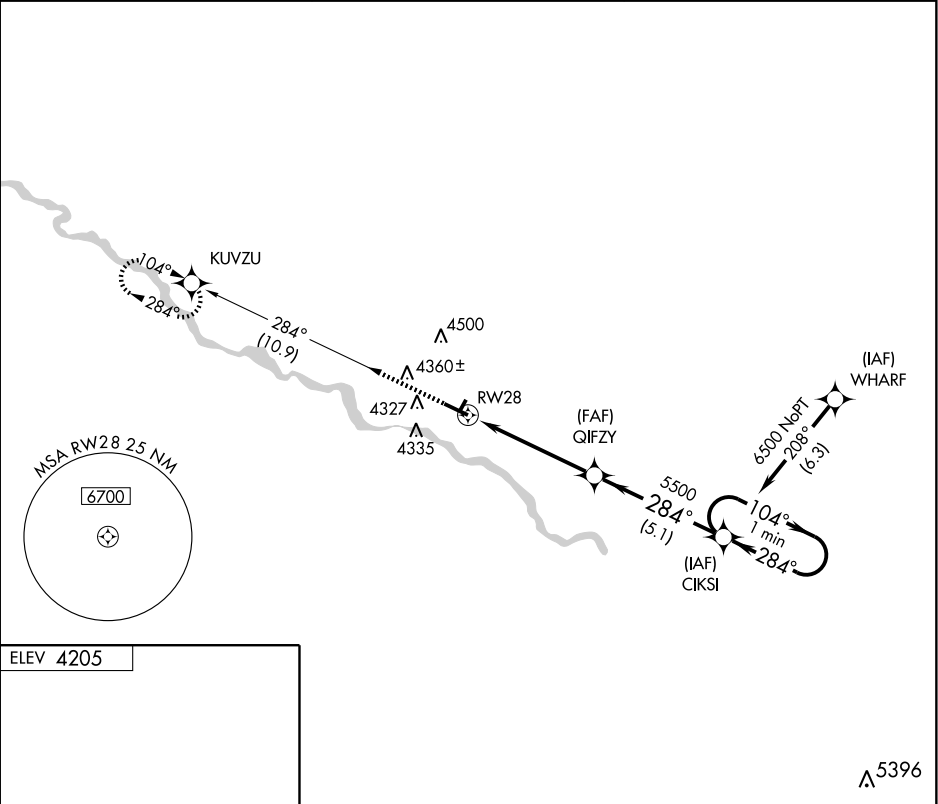


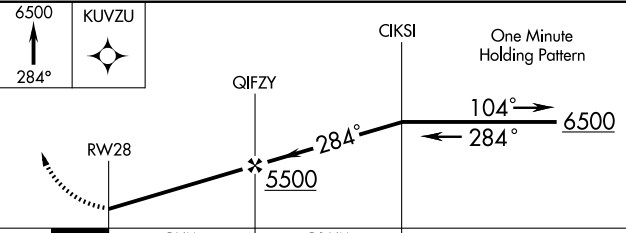
APP CRS	Rwy Idg	5703
284°	TDZE	4200
	Apt Elev	4205

GPS RWY 28
TORRINGTON MUNI (TOR)

▲ NA	MISSED APPROACH: Climb to 6500 via 284° course to KUVZU WP and hold.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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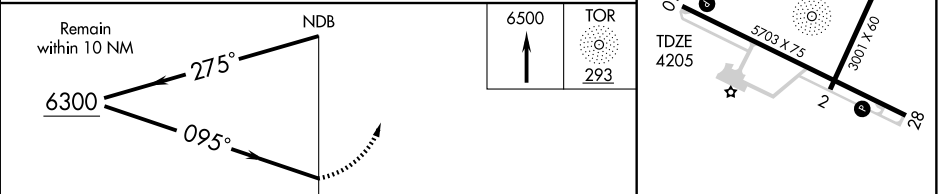
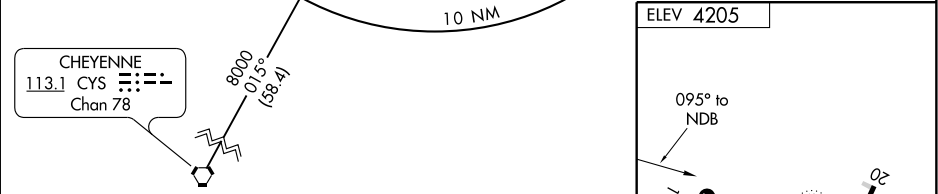
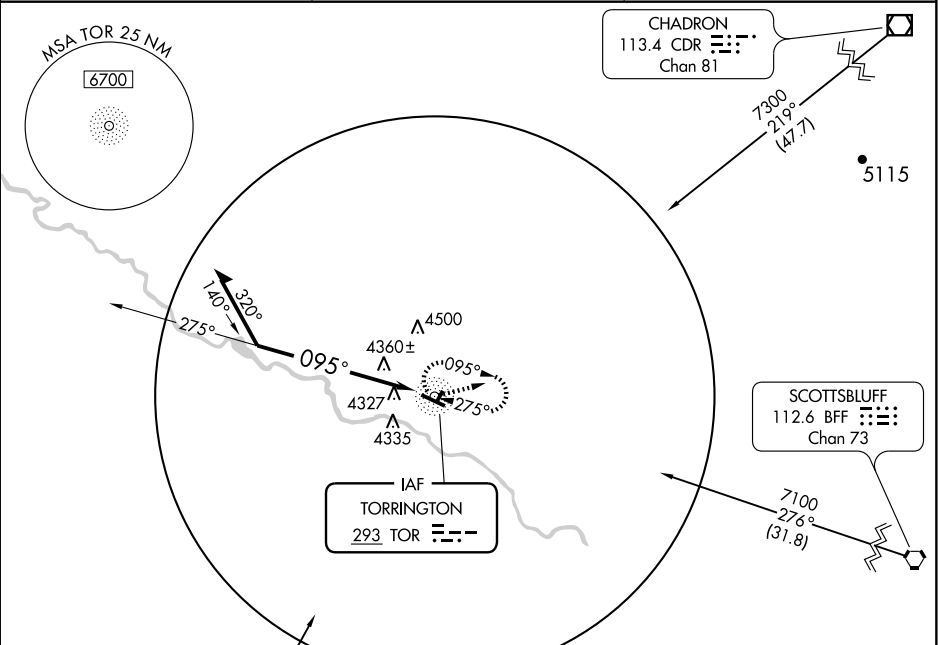
 <div>6500 ↑ 284°</div> <div>KUVZU</div> <div>CIKSI</div> <div>One Minute Holding Pattern</div> <div>QIFZY</div> <div>5500</div> <div>104°</div> <div>284°</div> <div>6500</div> <div>RW28</div> <div>5 NM</div> <div>5.1 NM</div>				
CATEGORY	A	B	C	D
S-28	4620-1	420 (500-1)	4620-1¼	420 (500-1¼)
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)

NDB RWY 10
TORRINGTON MUNI (TOR)

NDB TOR	APP CRS	Rwy Idg	5703
293	095°	TDZE	4205
		Apt Elev	4205

NA	MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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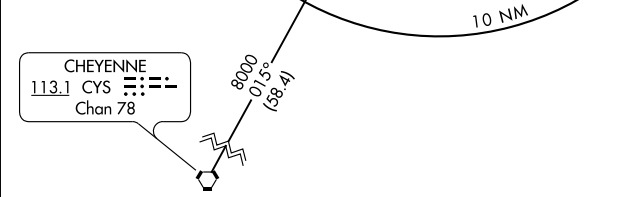
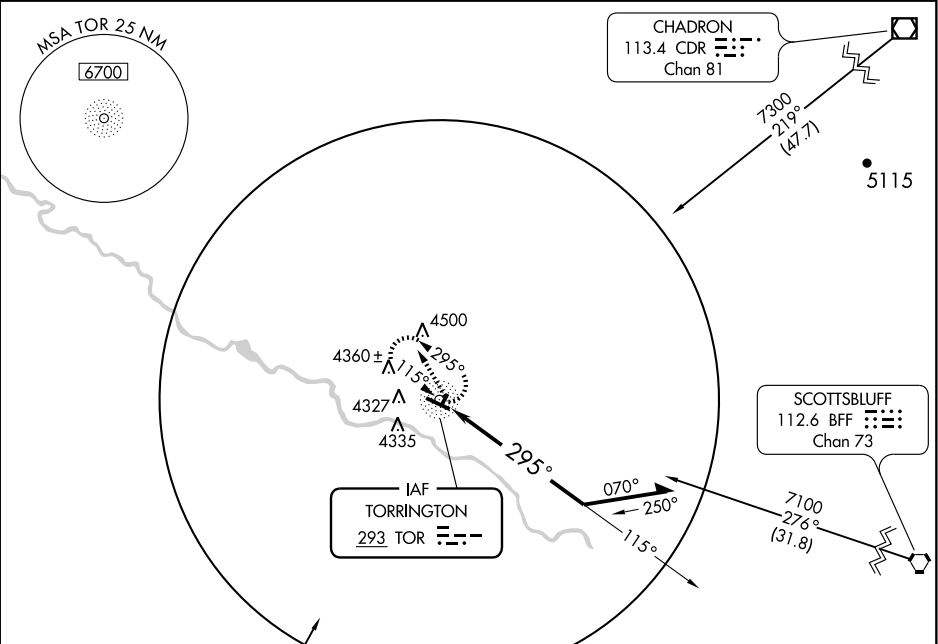
CATEGORY	A	B	C	D	REIL Rwy 10-28	MIRL Rwy 10-28
S-10	4940-1	735 (800-1)	4940-2	4940-2 1/4		
			735 (800-2)	735 (800-2 1/4)		
CIRCLING	4940-1	735 (800-1)	4940-2	4940-2 1/4		
			735 (800-2)	735 (800-2 1/4)		
					Knots	60 90 120 150 180
					Min:Sec	

NDB TOR	APP CRS	Rwy Idg	5703
293	295°	TDZE	4200
		Apt Elev	4205

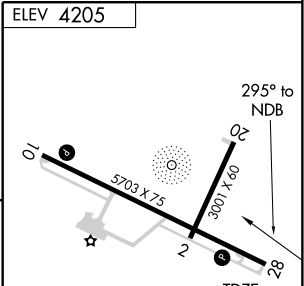
NDB RWY 28
TORRINGTON MUNI (TOR)

NA	MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.
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ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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6500	TOR
↑	293



CATEGORY	A	B	C	D
S-28	4720-1 520 (600-1)		4720-1½ 520 (600-1½)	4720-1¾ 520 (600-1¾)
CIRCLING	4720-1 515 (600-1)		4720-1½ 515 (600-1½)	4820-2 615 (700-2)

REIL Rwy 10-28 1					
MIRL Rwy 10-28 1					
Knots	60	90	120	150	180
Min:Sec					

APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 4774
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RNAV (GPS)-A

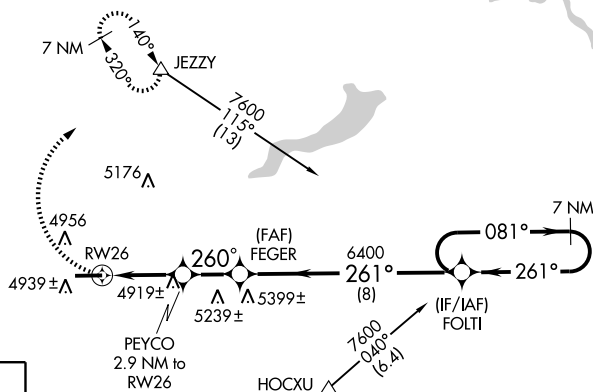
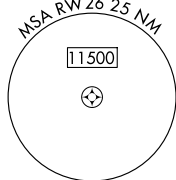
WHEATLAND/ PHIFER AIRFIELD (E.A.N)

▼ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
▲ NA Use Torrington altimeter setting; when not received, use Western Neb. Rgnl/William B. Heilig Field altimeter setting and increase all MDAs 100 feet and visibility Cats B/C ¼ mile.
 Procedure NA at night.

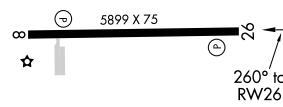
MISSED APPROACH: Climbing right turn to 9000 direct JEZZY and hold, continue climb-in-hold to 9000.

DENVER CENTER
135.6 385.6

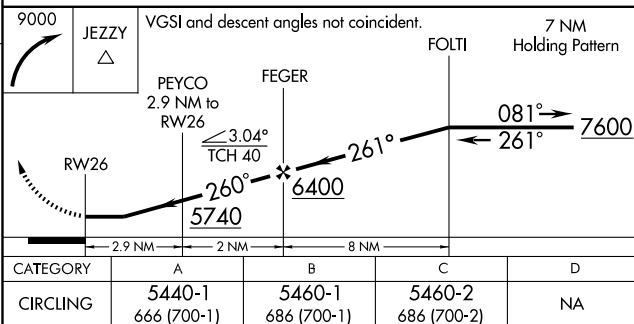
CTAF
122.9



ELEV 4774



▲ 5687



MIRL Rwy 8-26

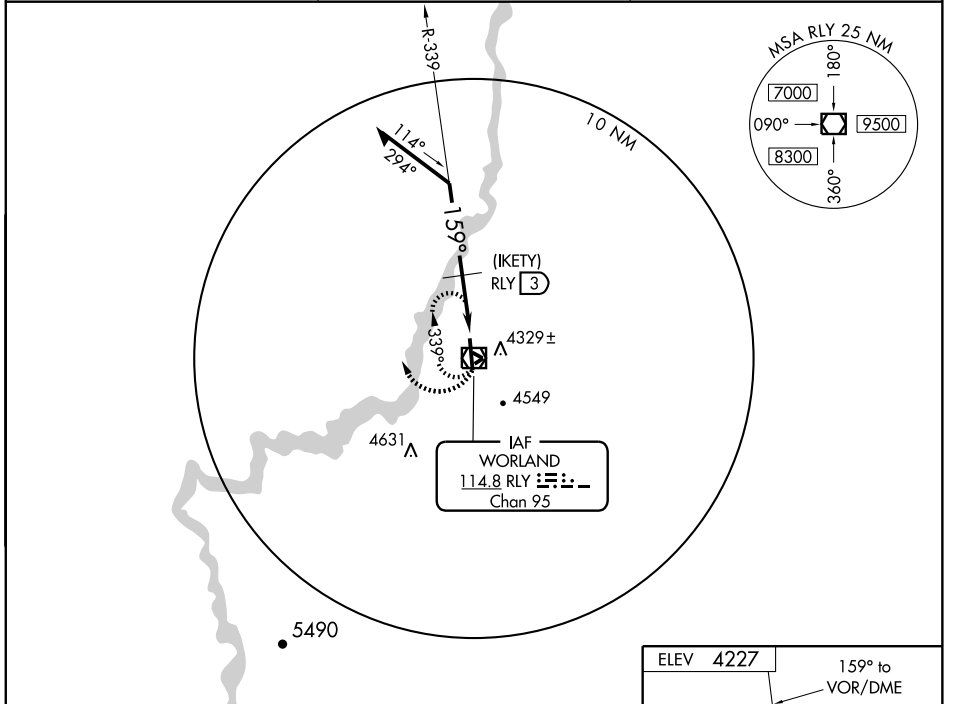
VOR/DME RLY 114.8 Chan 95	APP CRS 159°	Rwy Idg TDZE Apt Elev	7005 4179 4227
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VOR or GPS RWY 16

WORLAND MUNI (WRL)

<p>▼ ▲</p>	<p>MISSED APPROACH: Climbing right turn to 6800 in RLY VOR/DME holding pattern.</p>
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<p>ASOS 135.475</p>	<p>SALT LAKE CENTER 133.25 285.6</p>	<p>UNICOM 123.050 (CTAF) 1</p>
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<p>Remain within 10 NM</p> <p>VOR/DME</p> <p>6000</p> <p>339°</p> <p>159°</p> <p>4960</p> <p>(IKETY) RLY 3</p> <p>2.3 0.7</p>				
<p>6800</p> <p>RLY</p> <p>114.8</p>				
CATEGORY	A	B	C	D
S-16	4960-1 781 (800-1)	4960-1¼ 781 (800-1¼)	4960-2¼ 781 (800-2¼)	4960-2½ 781 (800-2½)
CIRCLING	4960-1 733 (800-1)	4960-1¼ 733 (800-1¼)	4960-2¼ 733 (800-2¼)	4960-2½ 733 (800-2½)
DME MINIMUMS				
S-16	4600-1	421 (400-1)	4600-1¼	421 (400-1¼)
CIRCLING	4840-1 613 (700-1)	4900-1 673 (700-1)	4900-2 673 (700-2)	4900-2¼ 673 (700-2¼)

